

BLACK SWAN MFG. CO.

GHS SAFETY DATA SHEET



SECTION 1 - IDENTIFICATION

Manufacturer:

Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318 Tel.: 800-252-5796 Fax: 773-227-3705

Web Site: www.blackswanmfg.com E-mail: info@blackswanmfg.com

Product Name: All Purpose Primer/Cleaner (Clear)

For any Transportation or Medical Chemical Emergencies call:

INFOTRAC

(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Recommended Use: Used to soften and prepare all PVC and

CPVC pipe and fittings.

SECTION 2 – HAZARD(S) IDENTIFICATION









Signal Word Danger



- HEALTH HAZARD - Extreme Danger - Hazardous Hazardous Slight Hazardous
- 0 Normal Material

SPECIFIC HAZARD Oxidizer Acid Alkali Corrosive Use NO WATER ACID ALK COR W

FIRE HAZARD

- Flash Points
 4 Below 73°F
 3 Below 100°F
 2 Above 100°F, Not
 exceeding 200°F
 1 Above 200°F
 0 Will not burn

REACTIVITY

4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 - Unstable if heated

GHS Classification

Health

Acute Toxicity: Cat. 4 Skin Irritation: Cat. 3 Eve Irritation: Cat. 2B Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established

Physical

Flammable Liquid: Cat. 2

Hazardous Statements

H225: Highly flammable liquid and vapor

H304: May be fatal if swallowed and enters airways

H312: Harmful in contact with skin H319: Causes serious eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness

H351: Contains a chemical classified by the U.S. EPA as a suspected

possible carcinogen

Precautionary Statements

P102: Keep out of reach of children

P210: Keep away from heat, sparks, open flames, and hot surfaces – No

P233/P235: Keep container tightly closed and cool

P243: Take precautionary measures against static discharge P261: Avoid breathing dust, fumes, gas, mist, vapors, and spray

P262: Do not get in eyes, on skin, or on clothing

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

P280/P284: Wear protective gloves, protective clothing, eye protection, and face protection. Wear a NIOSH approved respirator for organic solvents.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS **Hazardous Chemicals** CAS# **EINECS#** REACH Approx % **Pre-registration Number TETRAHYDROFURAN** 109-99-9 203-726-8 05-2116297729-22-0000 5-15% METHYL ETHYL KETONE 78-93-3 201-159-0 05-2116297728-24-0000 4-14% 2-17% CYCLOHEXANONE 108-94-1 203-631-1 05-2116297718-25-0000 **ACETONE** 67-64-1 200-662-2 05-2116297713-35-0000 60-80% All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

SECTION 4 – FIRST-AID MEASURES

Inhalation: Move into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician.

Skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water.

Eyes: Flush with water for 15 minutes. If irritation persists, get medical attention.

Ingestion: Give 1 or 2 glasses of water. DO NOT INDUCE VOMITING. Contact physician immediately.

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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Highly flammable liquid and vapor. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back.

Combustion Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Extinguishing Media: Carbon Dioxide Gas, Dry Chemical Powder, Foam.

Unsuitable Extinguishing Media: Water Spray, Water Stream.

Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.

Special Fire Fighting Procedures: Evacuate enclosed areas, stay upwind. Closed or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from sources of ignition and to disperse vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent contact with skin or eyes. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.

Protective Equipment: Wear suitable respiratory protective equipment.

Emergency Procedures: Remove all sources of ignition and ventilate area. For leaks, stop leak if it can be done safely. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.

Methods for Cleaning Up: Soak up spill with an inert absorbent such as sand, earth or other noncombusting material. Transfer absorbent material to a covered, labeled, metal container. Do not use plastic or aluminum containers.

SECTION 7 – HANDLING AND STORAGE

Handling Storage

Avoid contact with eyes, skin and clothing. Avoid prolonged breathing of vapor and mist. Use with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep products away from heat, sparks, flames and all other sources of ignition. Keep containers closed when not in use.

Store in a cool, dry, well-ventilated area away from incompatible materials. Store in shade between $40^{\circ}F - 110^{\circ}F$. Keep container closed when not in use. Keep away from heat, sparks, open flame and other sources of ignition. **Incompatible Materials**: caustics, ammonia, inorganic acids, chlorinated compounds, amines, strong oxidizers and isocyanates.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits					
Hazardous Chemicals	ACGIH-TLV	ACGIH-STEL	OSHA-PEL		
TETRAHYDROFURAN	50 ppm	100 ppm	200 ppm		
METHYL ETHYL KETONE	200 ppm	300 ppm	200 ppm		
CYCLOHEXANONE	20 ppm	50 ppm	50 ppm		
ACETONE	500 ppm	750 ppm	1000 ppm		

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed. **Ventilation**: Local ventilation is adequate. Use only explosion proof ventilation equipment.

Personal Protective Equipment – Respiratory: Atmospheric levels should be maintained below established exposure limits. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

Personal Protective Equipment – Skin: Prevent contact with skin. Butyl rubber gloves should be used.

Personal Protective Equipment – Eyes: Use glasses with side shield or splash proof goggles.

SECTION 0	PHYSICAL	& CHEMICAI	PROPERTIES
304 1111 9 -	- F FI 1 3 II A I /		

Appearance:	Clear Liquid	Flash Point:	-4°F	Vapor Pressure:	190mm Hg @20°C	
Odor:	Ketone	Specific Gravity:	0.81 <u>+</u> 0.02 @ 20°C	Flammability:	Category 2	
pH:	Not Established	Solubility (H2O):	Solvent-Complete, Resin-Precipitates	Flammability Limits:	LEL - 1.8%	
Melting Point:	Not Established	Evaporation Rate:	>1.0 (BUAC=1)		UEL – 11.8%	
Freezing Point:	Not Established	Vapor Density:	>2.00 (AIR=1)			
Boiling Point:	133°F (56°C)	VOC:	550 g/l			

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SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Keep away from heat, sparks, open flame and other sources of ignition.

Incompatible materials: Caustics, ammonia, inorganic acids, chlorinated compounds, amines, strong oxidizers and isocyanates.

Hazardous decomposition products: When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride

and smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity

Hazardous Chemicals LD_{50} TETRAHYDROFURAN

Inhalation: 3 hrs., 21000 mg/m³ (rat) Oral: 2842 mg/kg (rat) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) METHYL ETHYL KETONE Inhalation: 8 hrs., 23500 mg/m³ (rat) **CYCLOHEXANONE** Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation: 4 hrs., 8000 ppm (rat) ACETONE Oral: 5800 mg/kg (rat) Inhalation: 50100 mg/m³ (rat)

Likely Routes of Exposure: Inhalation, Skin Contact and Eye Contact.

Symptoms and Effect - Inhalation: Severe overexposure may result in nausea, dizziness, and headaches. Can cause drowsiness, irritation of eyes and nasal passages. Skin Contact: Liquid contact may remove natural skin oils resulting in irritation. Dermatitis may occur with prolonged contact. Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. **Ingestion:** May cause nausea, vomiting, diarrhea and mental sluggishness.

Long-Term Effect: None known.

Pre-Existing Conditions: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposure.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistance & Degradability: Biodegradable. Bioaccumulative Potential: None known.

Mobility in soil: In normal use, emission of Volatile Organic Compounds (VOC's) to the air takes place, typically at a rate of <550 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Shipping Information

Shipping Name: Adhesives, Containing a Flammable Liquid

Hazardous Class: I.D. Number: UN1133 **Packing Group:** II

Label Required: Flammable Liquid

Marine Pollutant:

Exception to the rule: If the package that contains the hazardous material is in a small consumer size (Less than 1L), then the rules that apply to shipping hazardous materials do not apply. This is

LC50

called an "Exception".

This is classified as Limited Quantity.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant and Health Hazard.

Risk Phrases: R11-Highly Flammable. R36/37-Irritant to eyes and respiratory system. R66-Repeated exposure may cause skin dryness or cracking. R67-Vapors may cause drowsiness and dizziness.

Safety Phrases: S2-Keep out of reach of children. S9-Keep container in a well-ventilated place. S16-Keep away from sources of ignition-No smoking. S25-Avoid contact with eyes. S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33-Take precautionary measures against static discharges.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets. DATE: 01/01/2021

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E-mail: info@blackswanmfg.com

Web Site: www.blackswanmfg.com

For any Transportation or Medical Chemical Emergencies call:

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(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Recommended Use: Used to soften and prepare all PVC and

CPVC pipe and fittings.

SECTION 2 – HAZARD(S) IDENTIFICATION



HEALTH

FLAMMABILITY

REACTIVITY



Signal Word

Danger

HMIS

Product Name: Purple Primer











REACTIVITY

4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 – Unstable if heated

GHS Classification

Health

Acute Toxicity: Cat. 4 Skin Irritation: Cat. 3 Eve Irritation: Cat. 2B Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established

Physical

Flammable Liquid: Cat. 2

Hazardous Statements

H225: Highly flammable liquid and vapor

H304: May be fatal if swallowed and enters airways

3

H312: Harmful in contact with skin H319: Causes serious eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness

H351: Contains a chemical classified by the U.S. EPA as a suspected

possible carcinogen

Precautionary Statements

P102: Keep out of reach of children

P210: Keep away from heat, sparks, open flames, and hot surfaces – No

P233/P235: Keep container tightly closed and cool

P243: Take precautionary measures against static discharge P261: Avoid breathing dust, fumes, gas, mist, vapors, and spray

P262: Do not get in eyes, on skin, or on clothing

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in a well-ventilated area

P280/P284: Wear protective gloves, protective clothing, eye protection, and face protection. Wear a NIOSH approved respirator for organic solvents.

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SECTION 4 – FIRST-AID MEASURES

Inhalation: Move into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call physician.

Skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water.

Eyes: Flush with water for 15 minutes. If irritation persists, get medical attention.

Ingestion: Give 1 or 2 glasses of water. DO NOT INDUCE VOMITING. Contact physician immediately.

GHS SAFETY DATA SHEET

SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Highly flammable liquid and vapor. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back.

Combustion Products: Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Extinguishing Media: Carbon Dioxide Gas, Dry Chemical Powder, Foam.

Unsuitable Extinguishing Media: Water Spray, Water Stream.

Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.

Special Fire Fighting Procedures: Evacuate enclosed areas, stay upwind. Closed or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks. Use water spray to cool containers, to flush spills from sources of ignition and to disperse vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent contact with skin or eyes. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.

Protective Equipment: Wear suitable respiratory protective equipment.

Emergency Procedures: Remove all sources of ignition and ventilate area. For leaks, stop leak if it can be done safely. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.

Methods for Cleaning Up: Soak up spill with an inert absorbent such as sand, earth or other noncombusting material. Transfer absorbent material to a covered, labeled, metal container. Do not use plastic or aluminum containers.

SECTION 7 – HANDLING AND STORAGE

Handling Storage

Avoid contact with eyes, skin and clothing. Avoid prolonged breathing of vapor and mist. Use with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep products away from heat, sparks, flames and all other sources of ignition. Keep containers closed when not in use.

Store in a cool, dry, well-ventilated area away from incompatible materials. Store in shade between $40^{\circ}F - 110^{\circ}F$. Keep container closed when not in use. Keep away from heat, sparks, open flame and other sources of ignition. **Incompatible Materials**: caustics, ammonia, inorganic acids, chlorinated compounds, amines, strong oxidizers and isocyanates.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits						
Hazardous Chemicals	ACGIH-TLV	ACGIH-STEL	OSHA-PEL			
TETRAHYDROFURAN	50 ppm	100 ppm	200 ppm			
METHYL ETHYL KETONE	200 ppm	300 ppm	200 ppm			
CYCLOHEXANONE	20 ppm	50 ppm	50 ppm			
ACETONE	500 ppm	750 ppm	1000 ppm			

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed. **Ventilation**: Local ventilation is adequate. Use only explosion proof ventilation equipment.

Personal Protective Equipment – Respiratory: Atmospheric levels should be maintained below established exposure limits. If airborne concentrations exceed those limits, use of a NIOSH approved organic vapor cartridge respirator with full face-piece is recommended. The effectiveness of an air purifying respirator is limited. Use it only for a single short-term exposure. For emergency and other conditions where short term exposure guidelines may be exceeded, use an approved positive pressure self-contained breathing apparatus.

Personal Protective Equipment – Skin: Prevent contact with skin. Butyl rubber gloves should be used.

Personal Protective Equipment – Eyes: Use glasses with side shield or splash proof goggles.

SECTION 0	PHYSICAL	& CHEMICAL	PROPERTIES
304 11113 9 -	- F FI 1 3 II A I /		FRUFFIRITES

Appearance:	Purple Liquid	Flash Point:	-4°F	Vapor Pressure:	190mm Hg @20°C	
Odor:	Ketone	Specific Gravity:	0.84 <u>+</u> 0.02 @ 20°C	Flammability:	Category 2	
pH:	Not Established	Solubility (H2O):	Solvent-Complete, Resin-Precipitates	Flammability Limits:	LEL - 1.8%	
Melting Point:	Not Established	Evaporation Rate:	>1.0 (BUAC=1)		UEL – 11.8%	
Freezing Point:	Not Established	Vapor Density:	>2.00 (AIR=1)			
Boiling Point:	133°F (56°C)	VOC:	550 g/l			

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GHS SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Keep away from heat, sparks, open flame and other sources of ignition.

Incompatible materials: Caustics, ammonia, inorganic acids, chlorinated compounds, amines, strong oxidizers and isocyanates.

Hazardous decomposition products: When forced to burn, this product gives out carbon monoxide, carbon dioxide, hydrogen chloride

and smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity

<u>Hazardous Chemicals</u> <u>LD₅₀</u> <u>LC₅₀</u>

TETRAHYDROFURAN
Oral: 2842 mg/kg (rat)
METHYL ETHYL KETONE
Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)
CYCLOHEXANONE
ACETONE
Oral: 5800 mg/kg (rat)
Oral: 5800 mg/kg (rat)
Oral: 5800 mg/kg (rat)
Oral: 5800 mg/kg (rat)
Inhalation: 3 hrs., 21000 mg/m³ (rat)
Inhalation: 4 hrs., 8000 ppm (rat)
Inhalation: 50100 mg/m³ (rat)

Likely Routes of Exposure: Inhalation, Skin Contact and Eye Contact.

Symptoms and Effect - Inhalation: Severe overexposure may result in nausea, dizziness, and headaches. Can cause drowsiness, irritation of eyes and nasal passages. **Skin Contact:** Liquid contact may remove natural skin oils resulting in irritation. Dermatitis may occur with prolonged contact. **Eye Contact:** Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. **Ingestion:** May cause nausea, vomiting, diarrhea and mental sluggishness.

Long-Term Effect: None known.

Pre-Existing Conditions: Individuals with pre-existing diseases of the eyes, skin or respiratory system may have increased susceptibility to the toxicity of excessive exposure.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistance & Degradability: Biodegradable. Bioaccumulative Potential: None known.

Mobility in soil: In normal use, emission of Volatile Organic Compounds (VOC's) to the air takes place, typically at a rate of <550 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Shipping Information

Shipping Name: Adhesives, Containing a Flammable Liquid

Hazardous Class: 3
I.D. Number: UN1133
Packing Group: II

Label Required: Flammable Liquid

Marine Pollutant: No

Exception to the rule: If the package that contains the hazardous material is in a small consumer size (Less than 1L), then the rules that apply to shipping hazardous materials do not apply. This is

called an "Exception".

This is classified as Limited Quantity.

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant and Health Hazard.

Risk Phrases: R11-Highly Flammable. **R36/37-**Irritant to eyes and respiratory system. **R66-**Repeated exposure may cause skin dryness or cracking. **R67-**Vapors may cause drowsiness and dizziness.

Safety Phrases: S2-Keep out of reach of children. **S9-**Keep container in a well-ventilated place. **S16-**Keep away from sources of ignition-No smoking. **S25-**Avoid contact with eyes. **S26-**In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **S33-**Take precautionary measures against static discharges.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets.

DATE: 01/01/2021

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SAFETY DATA SHEET



1. Identification

Product identifier Carlon Low-VOC Solvent Cement for PVC Plastic Pipe

Other means of identification

SDS number SDS-00060

Product code VC9965C, VC9964, VC9963, VC9963C, VC9961P, VC9924-24, VC9924, VC9923,

VC9922, VC9941P, VC9LV4, VC9LV4-24, VC9LV4L-24, VC9LV3L-12, VC9LV2, VC9LV3

Recommended use Low-VOC solvent cement for PVC plastic pipe

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Thomas & Betts Corporation

Address 8155 T & B Boulevard Memphis, TN 38125

US

Telephone 901-252-5000 ext.8324

E-mail Not available.

Emergency phone number For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night +1 703-741-5970

2. Hazard(s) identification

 Physical hazards
 Flammable liquids
 Category 2

 Health hazards
 Acute toxicity, oral
 Category 4

 Acute toxicity, inhelation
 0.1

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

Carcinogenicity

Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. Causes serious eye irritation. Causes

skin irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin (or hair): Take

off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol-resistant foam, carbon

dioxide, dry powder or water fog for extinction.

Carlon Low-VOC Solvent Cement for PVC Plastic Pipe 933443 Revision: 0 Revision date: - Issue date: 06-May-2016 **Storage** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
2-Butanone (Methyl ethyl ketone)	78-93-3	Proprietary
Acetone	67-64-1	Proprietary
Cyclohexanone	108-94-1	Proprietary
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC;	9002-86-2	Proprietary
Furan, Tetrahydro-	109-99-9	Proprietary

Composition comments

The exact percentage (concentration) of composition has been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed Headache. Dizziness. Nausea. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure to dust may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value				
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)	STEL	5 ppm				
	TWA	1 ppm				
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)						

Components	Туре	Value Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	PEL	590 mg/m3
, ,		200 ppm
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3
,		50 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Ethene, chloro-, nomopolymer, Polyvinyl chloride; PVC; (CAS 0002-86-2)	PEL	5 mg/m3	Respirable fraction.
Furan, Tetrahydro- (CAS 09-99-9)	PEL	15 mg/m3 590 mg/m3	Total dust.
	2 4000)	200 ppm	
JS. OSHA Table Z-3 (29 CFR 191	•		-
Components	Туре	Value	Form
Ethene, chloro-, nomopolymer, Polyvinyl chloride; PVC; (CAS 0002-86-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
JS. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Acetone (CAS 67-64-1)	STEL	750 ppm	
(0.4.0	TWA	500 ppm	
Cyclohexanone (CAS 08-94-1)	STEL	50 ppm	
	TWA	20 ppm	Describele monthless
Ethene, chloro-, lomopolymer, Polyvinyl Ihloride; PVC; (CAS 1002-86-2)	TWA	3 mg/m3	Respirable particles.
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	
	TWA	50 ppm	
JS. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	885 mg/m3	
, ,		300 ppm	
	TWA	590 mg/m3	
		200 ppm	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 08-94-1)	TWA	100 mg/m3	
		25 ppm	
		735 mg/m3	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	, 55g,5	
Furan, Tetrahydro- (CAS 09-99-9)	STEL	250 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL TWA	-	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	2 mg/l	MEK	Urine	*
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)

Can be absorbed through the skin.

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protectionChemical respirator with organic vapor cartridge and full facepiece. **Thermal hazards**Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Liquid, various colors.

Physical stateLiquid.FormNot available.ColorClear. Gray. White.

Odor Ether-like.
Odor threshold 0.88 ppm
pH Not available.
Melting point/freezing point - 108 °C

Initial boiling point and boiling 56 °C

range

Flash point - 20 °C

Evaporation rate > 1.0 (Butyl acetate = 1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

opper/lower naminability of explos

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) 1.8 % Explosive limit - upper (%) 12.8 %

Vapor pressure 190 mm Hg @ 20 °C

Vapor density 2.5 (Air = 1)Relative density 0.900 (Water = 1)

Solubility(ies)

Solubility (water) Solvent portion soluble in water. Resin portion separates out.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 321 °C

Decomposition temperatureNot available. **Viscosity**Not available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

VOC (Weight %) VOC emissions when tested per SCAQMD Rule 1168, Test Method 316A is 470 g/L

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Acids. Bases. Oxidizers.

Hazardous decomposition

products

Hydrogen chloride. Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Harmful in contact with skin. Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Dizziness. Nausea. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure to dust may cause

chronic effects.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful if swallowed.

Species Test Results Components

Acetone (CAS 67-64-1)

Acute

Dermal

LD50 Rabbit 20 ml/kg

Inhalation

LC50 Rat 76 mg/l, 4 Hours

50.1 mg/l, 8 Hours

Cyclohexanone (CAS 108-94-1)

Acute

Dermal

LD50 Rabbit 948 mg/kg

Inhalation

LC50 Rat 8000 ppm, 4 hours

Oral

LD50 Rat 800 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eve irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans.

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; 3 Not classifiable as to carcinogenicity to humans.

(CAS 9002-86-2)

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; Cancer

(CAS 9002-86-2)

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results**

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 5490 - 7030 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 0.29Acetone (CAS 67-64-1) -0.24Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46

Mobility in soil The product is partly soluble in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions**

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN1133

UN proper shipping name

Transport hazard class(es)

Adhesives, containing a flammable liquid

3 Class Subsidiary risk 3 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

149, B52, IB2, T4, TP1, TP8 **Special provisions**

150 Packaging exceptions 173 Packaging non bulk 242 Packaging bulk

IATA

UN1133 **UN number**

UN proper shipping name Adhesives containing flammable liquid

3

Transport hazard class(es) Class Subsidiary risk

Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1133

UN proper shipping name ADHESIVES containing flammable liquid

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. F-E. S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC;

(CAS 9002-86-2)

Central nervous system

Liver Blood Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) LISTED Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 6714 Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 35 %WV Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 6714 Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

US. New Jersey Worker and Community Right-to-Know Act

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)

Inventory name

Furan, Tetrahydro- (CAS 109-99-9)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9)

US. Rhode Island RTK

2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 06-May-2016

Revision date - Revision # 0

United States & Puerto Rico

HMIS® ratings Health: 2*

Flammability: 3 Physical hazard: 0 Personal protection: B

NFPA ratings



Disclaimer

Thomas & Betts Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Carlon Low-VOC Solvent Cement for PVC Plastic Pipe 933443 Revision: 0 Revision date: - Issue date: 06-May-2016 Yes

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



SAFETY DATA SHEET

JIM PR-1L PURPLE Primer - Low VOC

A CSW Industrials Company

SECTION 1 - PRODUCT AND COMPANY INFORMATION

PRODUCT NAME

Jim PR-1L Purple Primer - Low VOC

PRODUCT CODE

55910, 55912, 55914, 55918, 55920

CHEMICAL FAMILY

Organic

USE

Low VOC Solvent Cement for PVC Plastic Pipe

MANUFACTURER'S NAME

RectorSeal LLC 2601 Spenwick Drive Houston, TX 77055 USA DATE OF VALIDATION

January 2021

DATE OF PREPARATION

January 2021

EMERGENCY TELEPHONE NO.

Chemtrec 24 Hours (800) 424-9300 USA (703) 527-3887 International

TECHNICAL SERVICE TELEPHONE NO.

(800) 231-3345 or (713) 263-8001

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION

ENVIRONMENTAL HAZARDS

Acute Toxicity: Not Known Chronic Toxicity: Not Known

HEALTH HAZARDS

Acute Toxicity: Category 4 Skin Irritation: Category 3 Skin Sensitization: NO Eye Irritation: Category 2

PHYSICAL HAZARDS

Flammable Liquid: Category 2

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS







Signal Word Danger WHMIS CLASSIFICATION CLASS B, DIVISION 2 CLASS D, DIVISION 1B

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JIM PR-1L PURPLE Primer - Low VOC

HAZARD STATEMENTS

H225: Highly flammable liquid and vapor

H319: Causes serious eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H351: Suspected of causing cancer

EUH019: May form explosive peroxides

PRECAUTIONARY STATEMENTS

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection

RESPONSE

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

STORAGE

P403+P233: Store in a well ventilated place. Keep container tightly closed

DISPOSAL

P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	EINECS	REACH Registration Number	CONCENTRATION % by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	10 - 25
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	15 - 25
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	10 - 30
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	30 - 50

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

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^{*} Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

SECTION 4 - FIRST AID MEASURES

If in eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice

immediately.

If on skin: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If

irritation develops, seek medical advice.

If inhaled: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult,

give oxygen. Seek medical advice.

If swallowed: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting.

Seek medical advice immediately.

LIKELY ROUTE OF EXPOSURES: Inhalation, Eye and Skin Contact

ACUTE SYMPTOMS AND EFFECTS:

Inhalation: Severe overexposure may result in nausea, dizziness and headache. Can cause drowsiness,

irritation of eyes and nasal passages.

Eye contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or

conjunctival inflammation on contact with the liquid.

Skin contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur

with prolonged contact.

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long term) effects: Methyl Ethyl Ketone (MEK) – Low level chronic exposure has been shown to cause decreased

memory and impairment of the central nervous system.

Tetrahydrofuran (THF) - Category 2 Carcinogen

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.

Unsuitable Extinguishing Media: Water spray or stream.

Exposure Hazards: Inhalation and dermal contact

Combustion Products: Oxides of carbon, hydrogen chloride and smoke

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

	HMIS	NFPA
Health	2	2
Flammability	3	3
Reactivity	0	0
PPE	В	

0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8).

Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or

open water course.

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.

Materials not to be used for clean up: Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and

ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Storage: Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic

acids, strong oxidizers and isocyanates.

Follow all precautionary information on container label, product bulletins and solvent

cementing literature.

Section 8 - Exposure Controls/Personal Protection

EXPOSURE LIMITS

Component	ACGIH 8-hr TLV	ACGIH 15-min STEL	OSHA 8-hr PEL	OSHA 15 min STEL	OSHA PEL-Ceiling	CAL/OSHA 8-hr PEL	CAL/OSHA Ceiling	CAL/OSHA 15-min STEL
Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Purple, thin liquid

Odor: Ketone pH: Not Applicable

Melting/Freezing Point:-108.5°C (-163.3°F) Based on first melting component: THF **Boiling Point:**56°C (133°F) Based on first boiling component: Acetone

Flash Point: -20°C (-4°F) TCC based on Acetone

Specific Gravity: 0.846 @23°C (73°F)

Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-octanol/water: Not Available

Auto-ignition Temperature: 321°C (610°F) based on THF

Decomposition Temperature: Not Applicable

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: < 550 g/l.

Odor Threshold:0.88 ppm (Cyclohexanone)Boiling Range:56°C (133°F) to 156°C (313°F)

Evaporation Rate: > 1.0 (BUAC = 1) **Flammability:** Category 2

Flammability Limits: LEL: 1.1% based on Cyclohexanone

UEL: 12.8% based on Acetone

Vapor Pressure: 190 mm Hg @ 20°C (68°F) Acetone

Vapor Density: >2.0 (Air = 1) **Viscosity:** Water-thin

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

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SECTION 11 - TOXICOLOGY INFORMATION

Toxicity: Tetrahydrofuran (THF) **LD50** Oral: 2842 mg/kg (rat)

Methyl Ethyl Ketone (MEK) Cyclohexanone

Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)

Acetone

Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)

Oral: 5800 mg/kg (rat)

LC50

Inhalation 3 hrs. 21,000 mg/m³ (rat) Inhalation 8 hrs. 23,500 mg/m³ (rat) Inhalation 4 hrs. 8,000 PPM (rat) Inhalation 50,100 mg/m³ (rat)

Target Organs STOT SE3 STOT SE3 **Not Established**

STOT SE3

Reproductive **Effects**

Teratogenicity Not Established

Mutagenicity Not Established **Embryotoxicity** Not Established **Sensitization to Product** Not Established **Synergistic Products** Not Established

Not Established

Section 12 - Ecological Information

Ecotoxicity:

None Known

Mobility in Soil:

If released into the environment, this product can move rapidly through the soil.

Degradability: **Bioaccumulation:**

Not available. Minimal to none.

SECTION 13 - DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

Section 14 - Transportation Information

Proper Shipping Name: Flammable Liquid, n.o.s.

(Acetone, Tetrahydrofuran)

Hazard Class: 3 **Secondary Risk:** None **Identification Number:** UN 1993 **Packing Group:** PG II

Label Required: Class 3 Flammable Liquid

Marine Pollutant: NO **EXCEPTION for Ground Shipping**

DOT Limited Quantity:

Up to 1L per inner packaging, 30 kg gross weight per package.

Consumer Commodity:

Depending on packaging, these quantities may qualify

under DOT as "ORM-D".

TDG INFORMATION

TDG Class: FLAMMABLE LIQUID 3 **Shipping Name:** Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran)

UN Number/Packing Group:

UN 1993, PG II



SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Symbols: F, Xi

Risk Phrases: R11: Highly flammable

R20: Harmful by inhalation

R36/37: Irritating to eyes and respiratory system

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S9: Keep container in a well-ventilated place

S16: Keep away from sources of ignition - No smoking

S25: Avoid contact with eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S33: Take precautionary measures against static discharges

S46: If swallowed, seek medical advise immediately and show this container or label

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Compliance Statement: This SDS was prepared to be in accordance with:

US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012)

European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances

and mixtures

SECTION 16 - OTHER INFORMATION

Specification Information:

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

Intended Use of Product:

Primer for PVC Plastic Pipe

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001

IPEX

GHS SAFETY DATA SHEET

Date Revised: NOV 2014 IPEX CLR Regular Bodied Low VOC PVC Plastic Pipe Cement Supersedes: JUN 2013

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IPEX CLR Regular Bodied Low VOC PVC Plastic Pipe Cement

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

MANUFACTURER: SUPPLIER: Multi Fittings Corp. **IPS** Corporation

> 4507 LeSaint Court 17109 South Main Street, Gardena, CA 90248-3127 Fairfield, Ohio 45014 P.O. Box 379, Gardena, CA 90247-0379

> > Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

Medical: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

	Health	E	nvironmental	Phys	sical	
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known			
Skin Sensitization:	NO	-				
Eve:	Category 2					

GHS LABEL:







Signal Word: Danger

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2 CLASS D. DIVISION 2B

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H319: Causes serious eye irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H332: Harmful if inhaled	P280: Wear protective gloves/protective clothing/eye protection/face protection
H335: May cause respiratory irritation	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H336: May cause drowsiness or dizziness	P403+P233: Store in a well ventilated place. Keep container tightly closed
H351: Suspected of causing cancer	P501: Dispose of contents/container in accordance with local regulation
EUH019: May form explosive peroxides	

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	20 - 40
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	30 - 45
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	15 - 25

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing. Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity

SECTION 4 - FIRST AID MEASURES

Contact with eves: Flush eves immediately with plenty of water for 15 minutes and seek medical advice immediately.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog **HMIS** NFPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream. 2 1-Slight Exposure Hazards: Inhalation and dermal contact Flammability 3 3 2-Moderate **Combustion Products:** Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious PPE В 4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Keep away from heat, sparks and open flame. Personal precautions:

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Environmental Precautions: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel

Aluminum or plastic containers

Materials not to be used for clean up:

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

						OSHA	CAL/OSHA	CAL/OSHA	
EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	Ceiling	CAL/OSHA STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Storage:

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Eye Protection:

Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Skin Protection:

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local

exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

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IPEX

GHS SAFETY DATA SHEET

Date Revised: NOV 2014 IPEX CLR Regular Bodied Low VOC PVC Plastic Pipe Cement Supersedes: JUN 2013

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Clear, regular syrupy liquid

Odor: Ketone Odor Threshold: 0.88 ppm (Cyclohexanone) pH: Not Applicable . Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF Boiling Range: 66°C (151°F) to 156°C (313°F)

> 1.0 (BUAC = 1) **Boiling Point:** 66°C (151°F) Based on first boiling component: THF Evaporation Rate: Flash Point: -20°C (-4°F) TCC based on THF Flammability:

Category 2 Specific Gravity: 0.934 @23°C (73°F) Flammability Limits:

LEL: 1.1% based on Cyclohexanone Solubility: Solvent portion soluble in water. Resin portion separates out. UEL: 11.8% based on THF

Partition Coefficient n-octanol/water: Vapor Pressure: 129 mm Hg @ 20°C (68°F)based on THF Not Available 321°C (610°F) based on THF **Auto-ignition Temperature:** Vapor Density: >2 (Air = 1)

Decomposition Temperature: Not Applicable Other Data: Viscosity: Regular bodied

When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l. VOC Content:

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke Hazardous decomposition products:

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Eye Contact:

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Chronic (long-term) effects: Category 2 Carcinogen LD50 Toxicity:

LC₅₀ **Target Organs** Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Tetrahydrofuran (THF) Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3

Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Cyclohexanone

Reproductive Effects **Teratogenicity** Mutagenicity **Embryotoxicity** Sensitization to Product Synergistic Products Not Established Not Established Not Established Not Established Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of ≤ 510 g/l. Mobility:

Degradability: Not readily biodegradable Bioaccumulation: Minimal to none

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives Hazard Class:

EXCEPTION for Ground Shipping Secondary Risk: None

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Identification Number: UN 1133

Packing Group: Class 3 Flammable Liquid Label Required:

TDG INFORMATION Marine Pollutant: TDG CLASS: NO

FLAMMABLE LIQUID 3 SHIPPING NAME ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2

Symbols: F, Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS)

R11: Highly flammable Risk Phrases:

R20: Harmful by inhalation. R66: Repeated exposure may cause skin dryness or cracking

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizzines

Safety Phrases: S9: Keep container in a well-ventilated place. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges

S25: Avoid contact with eves S46: If swallowed, seek medical advise immediately and show this container or label.

SECTION 16 - OTHER INFORMATION

Specification Information: All ingredients are compliant with the requirements of the European Department issuing data sheet: Safety Health & Environmental Affairs Directive on RoHS (Restriction of Hazardous Substances)

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 11/14/2014 / Updated GHS Standard Format

Intended Use of Product: Solvent Cement for PVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof

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SAFETY DATA SHEET



1. Identification

Product identifier Oatey Purple Primer- NSF Listed for PVC and CPVC

Other means of identification

Product code 1402E

Synonyms Part Numbers: 30755(TV), 30756(TV), 30757(TV), 30758, 30759, 30927

Recommended use Joining PVC Pipes Recommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Oatey Purple Primer- NSF Listed for PVC and CPVC

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

926733 Version #: 01 Revision date: 12-5-2017 Issue date: 5-27-2015

Storage

Disposal

Hazard(s) not otherwise classified (HNOC)

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Ingestion

Chemical name	CAS number	%
Acetone	67-64-1	25-40
Cyclohexanone	108-94-1	25-40
Furan, Tetrahydro-	109-99-9	15-30
Methyl ethyl ketone	78-93-3	15-30

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin Skin contact

irritation occurs: Get medical advice/attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

General information

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

Oatey Purple Primer- NSF Listed for PVC and CPVC SDS US 2/10 926733 Version #: 01 Revision date: 12-5-2017 Issue date: 5-27-2015

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
•		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
,		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
,	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	

Oatey Purple Primer- NSF Listed for PVC and CPVC

SDS US

US. ACGIH Threshold Limit Values

Components	Туре	Value	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
•		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
,		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
,		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

SDS US Oatey Purple Primer- NSF Listed for PVC and CPVC 926733 Version #: 01 Revision date: 12-5-2017 Issue date: 5-27-2015 4 / 10 Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Translucent liquid. **Form**

Color Purple Odor Solvent. **Odor threshold** Not available. Not available. рH Melting point/freezing point Not available. 151 °F (66.11 °C) Initial boiling point and boiling

range

14.0 - 23.0 °F (-10.0 - -5.0 °C) Flash point

Evaporation rate 5.5 - 8Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

11.8

1.8

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

145 mm Hg @ 20 C Vapor pressure

2.5 Vapor density

Relative density 0.84 +/- 0.02 @20°C

Solubility(ies)

Negligible Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity

Other information

Bulk density 7 lb/gal

< 550 g/l SQACMD Method 24 VOC (Weight %)

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the Conditions to avoid

flash point. Contact with incompatible materials.

Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics. Incompatible materials

Oatey Purple Primer- NSF Listed for PVC and CPVC 926733 Version #: 01 Revision date: 12-5-2017 Issue date: 5-27-2015 No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Causes skin irritation. Skin contact

Eve contact Causes serious eye irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May

cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation. Acute toxicity

Compor	nents	Species	Test Results	
Acetone	(CAS 67-64-1)			
	Acute Dermal LD50	Rabbit	20 ml/kg	
	Inhalation LC50	Rat	50 mg/l, 8 Hours	
	<i>Oral</i> LD50	Rat	5800 mg/kg	
Cyclohexanone (CAS 108-94-1)				
	Acute Dermal			
	LD50	Rabbit	948 mg/kg	
	Inhalation LC50	Rat	8000 ppm, 4 hours	
	Oral LD50	Rat	1540 mg/kg	

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation

lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following

exposure to THF by all routes of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Acatona (CAC 67 64 1)		

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

 Acetone (CAS 67-64-1)
 -0.24

 Cyclohexanone (CAS 108-94-1)
 0.81

 Furan, Tetrahydro- (CAS 109-99-9)
 0.46

 Methyl ethyl ketone (CAS 78-93-3)
 0.29

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1993

UN proper shipping name Transport hazard class(es) Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 26274 LBS, Acetone RQ = 13130 LBS)

Class 3
Subsidiary risk Label(s) 3
Packing group

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^{*} Estimates for product may be based on additional component data not shown.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150 202 Packaging non bulk Packaging bulk 242

IATA

UN number UN1993

Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone) **UN** proper shipping name

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1993

FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone) **UN proper shipping name**

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. **EmS** F-E. S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not available.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No. Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

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Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other information, including date of preparation or last revision

Issue date 27-May-2015

Revision date - 01

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

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^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NFPA ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Oatey*

SAFETY DATA SHEET

1. Identification

Product identifier PVC Medium Gray Cement

Other means of identification

SDS number 1101E

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a

well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective

gloves/protective clothing/eye protection/face protection.

Response Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If

eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash

before reuse. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

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Hazard(s) not otherwise classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Furan, Tetrahydro-	109-99-9	30-50
Acetone	67-64-1	10-25
Methyl ethyl ketone	78-93-3	10-25
Polyvinyl chloride	9002-86-2	12-20
Cyclohexanone	108-94-1	10-20
Fumed Silica	112945-52-5	1-5
Other components below reportable levels		0.3

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

InhalationRemove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before

reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

nulmonary edoma and pneumonitis

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and

delayed

Ingestion

Indication of immediate medical attention and special treatment needed

General information

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods
General fire hazards

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

Value

Form

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA
Components

Components	i ype	value	1 01111
Fumed Silica (CAS 112945-52-5)	TWA	0.8 mg/m3	Unspecified.
·		20 mppcf	Unspecified.
US. OSHA Specifically Regulated	d Substances (29 CFR 1910.100	01-1050)	
Components	Туре	Value	
Polyvinyl chloride (CAS 9002-86-2)	STEL	5 ppm	
·	TWA	1 ppm	
US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910.	1000)	
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
,		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
·		200 ppm	

Type

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
5	5-1	200 ppm	5
Polyvinyl chloride (CAS 9002-86-2)	PEL	5 mg/m3	Respirable fraction.
·		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.	1000)		
Components	Туре	Value	
Fumed Silica (CAS	TWA	0.8 mg/m3	
112945-52-5)		00 monof	
US. ACGIH Threshold Limit Values		20 mppcf	
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS	STEL	50 ppm	
108-94-1)	TWA	20 ppm	
Furan, Tetrahydro- (CAS	STEL	100 ppm	
109-99-9)		• •	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Polyvinyl chloride (CAS 9002-86-2)	TWA	1 mg/m3	Respirable fraction.
U.S NIOSH			
Components	Туре	Value	Form
Fumed Silica (CAS	REL	6 mg/m3	Unspecified.
112945-52-5) US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS	TWA	100 mg/m3	
108-94-1)		05	
Fumed Silica (CAS	TWA	25 ppm 6 mg/m3	
112945-52-5)	IVVA	6 mg/ms	
Furan, Tetrahydro- (CAS	STEL	735 mg/m3	
109-99-9)		050	
	TWA	250 ppm 590 mg/m3	
	I VVA	200 ppm	
Methyl ethyl ketone (CAS	STEL	885 mg/m3	
78-93-3)	J	•	
		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

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Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands after handling and before eating.

9. Physical and chemical properties

Appearance

Liquid. Physical state

Form Opaque liquid.

Color Grey. Odor Solvent. **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling 151 °F (66.11 °C)

range

Flash point 14.0 - 23.0 °F (-10.0 - -5.0 °C)

Evaporation rate 5.5 - 8

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Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper 11.8

(%)

Explosive limit - lower (%) Not available.

1.8

Explosive limit - upper (%) Not available.

Vapor pressure 145 mm Hg @ 20 C

Vapor density 2.5

Relative density 0.93 +/- 0.02

Solubility(ies)

Solubility (water) Negligible

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 1200 - 2500 cP

Viscosity temperature 77 °F (25 °C)

Other information

Bulk density 7.7 lbs/gal

VOC (Weight %) <510 g/l SCAQMD 1168/M316A

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Vapors have a narcotic effect and may cause

headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause

irritation to the respiratory system.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components Species Test Results

Cyclohexanone (CAS 108-94-1)

Acute *Dermal*

LD50 Rabbit 948 mg/kg

PVC Medium Gray Cement SDS US

Components	Species	Test Results
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		
LD50	Rat	1540 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer. In 2012 USEPA Integrated Risk Information System (IRIS)

reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure. This product contains polyvinyl chloride (PVC) that is not a fabricated product, and is therefore, defined and regulated as a toxic and hazardous substance under 29 C.F.R. §

1910.1017 due to the presumed presence of residual vinyl chloride monomer. The concentrations of residual vinyl chloride calculated to be contained in this product are well below the threshold for

classification in accordance with 29 C.F.R. § 1910.1200.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

Fumed Silica (CAS 112945-52-5)

Polyvinyl chloride (CAS 9002-86-2)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Respiratory tract irritation. Narcotic effects.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)
Acetone (CAS 67-64-1)
Cyclohexanone (CAS 108-94-1)
Europ Tetrohydra (CAS 100-00-0)

 Cyclohexanone (CAS 108-94-1)
 0.81

 Furan, Tetrahydro- (CAS 109-99-9)
 0.46

 Methyl ethyl ketone (CAS 78-93-3)
 0.29

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-0.24

^{*} Estimates for product may be based on additional component data not shown.

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN1133 **UN number** Adhesives **UN** proper shipping name

Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Ш Packing group

Special precautions for user Read safety instructions. SDS and emergency procedures before handling.

T11, TP1, TP8, TP27 Special provisions

Packaging exceptions 150 Packaging non bulk 201 Packaging bulk 243

IATA

UN1133 **UN number UN proper shipping name** Adhesives

Transport hazard class(es)

Class 3 Subsidiary risk П Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN1133 **UN number UN** proper shipping name **ADHESIVES**

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards**

> Marine pollutant No. F-E. S-D

EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

PVC Medium Gray Cement SDS US

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2)

Central nervous system

Liver Blood Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1) Cyclohexanone (CAS 108-94-1) Fumed Silica (CAS 112945-52-5)

Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

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Polyvinyl chloride (CAS 9002-86-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Fumed Silica (CAS 112945-52-5) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. This product contains trace amounts of chemicals known to the state of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No significant Risk Level" (NSRL) are unlikely. The use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 will minimize exposure levels to these chemicals.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 27-May-2015

Revision date - 01

United States & Puerto Rico

HMIS® ratings Health: 2 Flammability: 3

Physical hazard: 0

NFPA ratings



Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Oatey®

SAFETY DATA SHEET

1. Identification

Product identifier Oatey All Purpose Clear Cement

Other means of identification

Product code 1403E

Synonyms Part Numbers: 30818(TV), 30821(TV), 30834 (TV), 30847, 30847, 30848, 31650, 31651, 32208,

32209

Recommended use Joining PVC, CPVC, or ABS Pipe

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

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Response

If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Furan, Tetrahydro-	109-99-9	30-45
Acetone	67-64-1	10-20
Cyclohexanone	108-94-1	10-20
Methyl ethyl ketone	78-93-3	8-18
Polyvinyl chloride	9002-86-2	10.98
Ethene, chloro-homopolymer, chlorinated	68648-82-8	3-7
Silica, amorphous, fumed	112945-52-5	1-5

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, Ingestion

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and

delayed

cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain. Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water

Indication of immediate medical attention and special treatment needed

immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

SDS US Oatey All Purpose Clear Cement 927038 Version #: 01 Revision date: -12-7-2017 Issue date: 05-27-2015 2/10 Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Value

590 mg/m3

8. Exposure controls/personal protection

Occupational exposure limits

Components

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Type

PEL

Components	i ypc	value	
Polyvinyl chloride (CAS 9002-86-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910.	1000)	
Components	Туре	Value Form	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
•		50 ppm	

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109-99-9)

Furan, Tetrahydro- (CAS

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Ту	ре		/alue	Form
				200 ppm	
Methyl ethyl ketone (CAS	PE	L	5	90 mg/m3	
78-93-3)			2	200 ppm	
Polyvinyl chloride (CAS	PE	ı		5 mg/m3	Respirable fraction.
9002-86-2)	, _	_	· ·	, mg, me	ricopirable fraction.
US. OSHA Table Z-3 (29 (CED 1010 1000\		1	5 mg/m3	Total dust.
•	•				
Components	Ty			/alue	
Silica, amorphous, fumed (CAS 112945-52-5)	TW	/A	0).8 mg/m3	
(OAS 112345-32-3)			2	20 mppcf	
US. ACGIH Threshold Lir	nit Values				
03. ACGIT TITLESHOU LII	ilit values				
Components	Ту	ре	V	/alue	Form
Acetone (CAS 67-64-1)	ST			'50 ppm	
	TW			500 ppm	
Cyclohexanone (CAS	ST	EL	5	50 ppm	
108-94-1)	TW	/A	9	20 ppm	
Furan, Tetrahydro- (CAS	ST			00 ppm	
109-99-9)	0.			оо рр	
	TW			50 ppm	
Methyl ethyl ketone (CAS	ST	EL	3	300 ppm	
78-93-3)	TW	/Λ	2	200 ppm	
Polyvinyl chloride (CAS	TW			mg/m3	Respirable fraction.
9002-86-2)	. •		·	mg/me	ricopirable fraction.
US. NIOSH: Pocket Guide	e to Chemical Hazard	s			
Components	Ту	ре		/alue	
Acetone (CAS 67-64-1)	TW	/A		90 mg/m3	
				250 ppm	
Cyclohexanone (CAS 108-94-1)	TW	/A	1	00 mg/m3	
100-94-1)			2	25 ppm	
Furan, Tetrahydro- (CAS	ST	EL		'35 mg/m3	
109-99-9)	_				
				250 ppm	
	TW	/A		590 mg/m3	
Matheul atheul katana (CAC	O.T.	- 1		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	ST	EL	8	885 mg/m3	
·				800 ppm	
	TW	/A		590 mg/m3	
0111				200 ppm	
Silica, amorphous, fumed (CAS 112945-52-5)	TW	/A	6	6 mg/m3	
ogical limit values					
ACGIH Biological Exposi	ure Indices				
Components	Value	Determinant	Specimen	Sampling Ti	me
Acetone (CAS 67-64-1)		Acetone	Urine	*	
ACELUTIE (CAS 67-64-1)	50 mg/l	Acetone	Unne	-	

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ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Face shield is recommended. Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Flash point

Liquid. Physical state Liquid. **Form** Color Clear. Milky. Solvent. Odor Not available. **Odor threshold** Not available. рH Melting point/freezing point Not available. 151 °F (66.11 °C) Initial boiling point and boiling range

14.0 - 23.0 °F (-10.0 - -5.0 °C)

Evaporation rate 5.5 - 8

Oatey All Purpose Clear Cement 927038 Version #: 01 Revision date: 12-7-2017 Issue date: 05-27-2015 5/10 Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper 11.8

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

145 mm Hg @ 20 C Vapor pressure

Vapor density 2.5

0.94 +/- 0.02 Relative density

Solubility(ies)

Solubility (water) Negligible Partition coefficient Not available. (n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Bulk density 7.8 lb/gal

VOC (Weight %) <325 g/l SCAQMD 1168/M316A

1.8

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eve contact Causes serious eve irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May

cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Test Results Components **Species**

Acetone (CAS 67-64-1)

Acute Dermal

LD50 Rabbit 20 ml/kg

Oatey All Purpose Clear Cement SDS US 927038 6/10 Version #: 01

Components	Species	Test Results
Inhalation LC50	Dot	FO mg/L Q Hours
	Rat	50 mg/l, 8 Hours
<i>Oral</i> LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-94-		5000 Hig/kg
Acute	-1)	
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		
LD50	Rat	1540 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation Carcinogenicity

lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following

exposure to THF by all routes of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans. Polyvinyl chloride (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans. Silica, amorphous, fumed (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Species Test Results Components

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

SDS US 927038 Version #: 01 Revision date: 12-7-2017 Issue date: 05-27-2015 7 / 10 Components Species Test Results

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

 Acetone (CAS 67-64-1)
 -0.24

 Cyclohexanone (CAS 108-94-1)
 0.81

 Furan, Tetrahydro- (CAS 109-99-9)
 0.46

 Methyl ethyl ketone (CAS 78-93-3)
 0.29

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1133 UN proper shipping name Adhesives

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions T11, TP1, TP8, TP27

Packaging exceptions 150
Packaging non bulk 201
Packaging bulk 243

IATA

UN number UN1133 UN proper shipping name Adhesives

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1133 UN proper shipping name ADHESIVES

^{*} Estimates for product may be based on additional component data not shown.

Transport hazard class(es)

3 Class Subsidiary risk Packing group Ш

Environmental hazards

Marine pollutant No. F-E. S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Not available.

Central nervous system

Liver Blood

Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

Silica, amorphous, fumed (CAS 112945-52-5)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3) Polyvinyl chloride (CAS 9002-86-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

Silica, amorphous, fumed (CAS 112945-52-5)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)* Canada Domestic Substances List (DSL) Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-27-2015

Revision date Version # 01 **HMIS®** ratings Health: 2

> Flammability: 3 Physical hazard: 0

NFPA ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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No

Oatey®

SAFETY DATA SHEET

1. Identification

Product identifier Oatey Clear Primer - NSF Listed for CPVC and PVC

Other means of identification

SDS number 1402E

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Oatey Co.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 **E-mail** info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4

Not classified.

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

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Hazard(s) not otherwise classified (HNOC)

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Acetone	67-64-1	30-60
Cyclohexanone	108-94-1	15-40
Furan, Tetrahydro-	109-99-9	10-30
Methyl ethyl ketone	78-93-3	10-30

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin Skin contact

irritation occurs: Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Oatey Clear Primer - NSF Listed for CPVC and PVC SDS US 921056 Version #: 02 Revision date: 12-1-2017 2 / 10 Issue date: 8-14-2014

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
·		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
,		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
,	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	
,	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
,	TWA	200 ppm	

SDS US

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
·		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
,		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
,		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Oatey Clear Primer - NSF Listed for CPVC and PVC

SDS US

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Translucent. **Appearance**

Physical state Liquid. Liquid. **Form** Color Clear. Odor Solvent. Odor threshold Not available. Not available. рH Melting point/freezing point Not available.

Initial boiling point and boiling range

14.0 - 23.0 °F (-10.0 - -5.0 °C) Flash point

Evaporation rate 5.5 - 8 Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

151 °F (66.11 °C)

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 145 mm Hg @ 20 C

2.5 Vapor density

Relative density 0.82 - 0.86

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** < 100 cP **Viscosity**

Other information

Bulk density 7 lb/gal

VOC (Weight %) < 550 g/l SQACMD Method 304

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

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11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May

T--4 D----

cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20 ml/kg
Inhalation		
LC50	Rat	50 mg/l, 8 Hours
Oral		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-9	94-1)	
Acute		
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		
LD50	Rat	1540 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eve irritation.

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Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation

lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following

exposure to THF by all routes of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Oatey Clear Primer - NSF Listed for CPVC and PVC 921056 Version #: 02 Revision date: 12-1-2017 Issue date: 8-14-2014 Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results**

Acetone (CAS 67-64-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow) Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46 Methyl ethyl ketone (CAS 78-93-3) 0.29

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

-0.24

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

> and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

Transport hazard class(es)

DOT

UN number UN1993

Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 25063 LBS, Acetone RQ = 12522 LBS) **UN proper shipping name**

Class 3 Subsidiary risk 3 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Oatey Clear Primer - NSF Listed for CPVC and PVC 7 / 10 921056 Version #: 02 Revision date: 12-1-2017 Issue date: 8-14-2014

^{*} Estimates for product may be based on additional component data not shown.

150 Packaging exceptions Packaging non bulk 202 Packaging bulk 242

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN1993 **UN number**

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards**

Marine pollutant No. F-E. S-E **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

6532 Acetone (CAS 67-64-1) Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 14-August-2014
Revision date 17-December-2014

Version # 02

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product,

and to assume liability for loss, injury, damage or expense due to improper use.

SDS US

SAFETY DATA SHEET

United Elchem Industries

1. Identification

Product identifier PLASTI-WELD PURPLE PRIMER NSF

Other means of identification

SDS number 2402E

Synonyms Part Numbers: Clear - 90324, 90336S, 90346S, 90356S, 90366S

Recommended use Joining PVC Pipes
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name United Elchem Industries c/o Oatey Co.

Address 4700 West 160th Street

Cleveland, OH 44135

Telephone 216-267-7100 **E-mail** info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015
Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

UNI-WELD CLEAR OR PURPLE PRIMER

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Disposal

Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Ingestion

Chemical name	CAS number	%
Acetone	67-64-1	30-60
Cyclohexanone	108-94-1	15-40
Furan, Tetrahydro-	109-99-9	10-30
Methyl ethyl ketone	78-93-3	10-30

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin Skin contact

irritation occurs: Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Call a physician or poison control center immediately. Do not induce vomiting, If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
,		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
,		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
,	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	

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US. ACGIH Threshold Limit Values

Components	Туре	Value	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
·	TWA	200 ppm	
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS	TWA	100 mg/m3	

Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
·		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
,		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
,		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Furan, Tetrahydro- (CAS 109-99-9)

Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).

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Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such General hygiene as washing after handling the material and before eating, drinking, and/or smoking. Routinely considerations

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Translucent. **Appearance** Liquid. Physical state Liquid. **Form**

Clear. or Purple Color

Odor Solvent. Not available. **Odor threshold** Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

range

151 °F (66.11 °C)

14.0 - 23.0 °F (-10.0 - -5.0 °C) Flash point

Evaporation rate 5.5 - 8 Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available. Flammability limit - lower

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure 145 mm Hg @ 20 C

2.5 Vapor density

0.82 - 0.86Relative density

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Conditions to avoid

Viscosity

Incompatible materials

Other information **Bulk density** VOC (Weight %)

10. Stability and reactivity

Reactivity

Chemical stability

Possibility of hazardous

reactions

UNI-WELD CLEAR OR PURPLE PRIMER

Not available.

< 100 cP

7 lb/gal

< 550 g/l SQACMD Method 304

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets Ingestion

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Species

Symptoms related to the physical, chemical and toxicological characteristics

Components

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May

Test Results

1540 mg/kg

cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation. **Acute toxicity**

Components	Species	rest Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20 ml/kg
Inhalation		
LC50	Rat	50 mg/l, 8 Hours
Oral		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-9	94-1)	
Acute		
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		

^{*} Estimates for product may be based on additional component data not shown.

Rat

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

LD50

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation

lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following

exposure to THF by all routes of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

UNI-WELD CLEAR OR PURPLE PRIMER

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** Acetone (CAS 67-64-1)

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Cyclohexanone (CAS 108-94-1)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1) -0.24Cyclohexanone (CAS 108-94-1) 0.81 Furan, Tetrahydro- (CAS 109-99-9) 0.46 Methyl ethyl ketone (CAS 78-93-3) 0.29

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

924273 Version #: 01 Revision date: 12-12-2017 Issue date: 12-17-2014

14. Transport information

Class Subsidiary risk Label(s)

Packing group

DOT

UN number

UN proper shipping name Transport hazard class(es)

^{*} Estimates for product may be based on additional component data not shown.

UN1993

Flammable liquids, n.o.s. (Methyl ethyl ketone RQ = 25063 LBS, Acetone RQ = 12522 LBS)

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Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions150Packaging non bulk202Packaging bulk242

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, Acetone)

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||
Environmental hazards

Marine pollutant No. EmS F-E, S-E

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the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1)

Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

LISTED

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

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Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

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US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
UNI-WELD CLEAR OR PURPLE I	PRIMÈR [´]	SDS US

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Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 17-December-2014

Revision date - 01

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. United Elchem Industries c/o Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper

use.

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* * * Section 1 - Product and Company Identification * * *

Product Identifier Plasti-Weld PVC Medium Clear or Gray Cement

SDS # 4101E

Part Numbers: Clear - 40466S, 40456S, 40446S, 40436S, 40424

Gray - 40366S, 40356S, 40346S, 40336S, 40324

Manufacturer Information

United Elchem Industries Phone: 216-267-7100

c/o Oatey Co.

4700 West 160th Street P.O. Box 35906 Cleveland, OH 44135 For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-

Print Date: 6/3/2015

9300. Outside the U.S. 1-703-527-3887.

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 2

Acute Toxicity Oral - Category 4

Acute Toxicity Dermal - Category 4

Acute Toxicity Inhalation - Category 4

Eye Damage/Irritation - Category 2A

Carcinogenicity - Category 2

Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapor.

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes serious eye irritation.

Contains a chemical classified by the US EPA as a suspected possible carcinogen.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames and hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing fume/gas/mist/vapors.

Use only outdoors or in a well-ventilated area.

Response

If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison center or doctor/physician.

If exposed or concerned Get medical advice/attention.

In case of fire: Use dry chemical, CO2, or foam to extinguish fire.

Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS#	Component	Percent
109-99-9	Tetrahydrofuran	30-50
67-64-1	Acetone	10-25
78-93-3	Methyl ethyl ketone	10-25
9002-86-2	PVC (Chloroethylene, polymer)	12-20
108-94-1	Cyclohexanone	10-20
112945-52-5	Silica, amorphous, fumed, crystalline-free	1-5

* * * Section 4 - First Aid Measures * * *

First Aid: Eves

If material gets into eyes or if fumes cause irritation, immediately flush eyes with plenty of water until chemical is removed. If irritation persists, get medical attention immediately.

First Aid: Skin

Remove contaminated clothing immediately. Wash all exposed areas with soap and water. Get medical attention if irritation develops. Remove dried cement with hand cleaner or baby oil.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital.

First Aid: Inhalation

If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Highly flammable liquid and vapor. Keep away from heat and all sources of ignition including sparks, flames, lighted cigarettes and pilot lights. Containers may rupture or explode in the heat of a fire. Vapors are heavier than air and may travel to a remote ignition source and flash back. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

Hazardous Combustion Products

Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Extinguishing Media

Use dry chemical, CO2, or foam to extinguish fire. Cool fire exposed container with water. Water may be ineffective as an extinguishing agent.

Unsuitable Extinguishing Media

None.

Fire Fighting Equipment/Instructions

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Stop leak if it can be done without risk.

Materials and Methods for Clean-Up

Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent such as sand, earth or other noncombusting material. Put absorbent material in covered, labeled metal containers.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.

Environmental Precautions

Prevent liquid from entering watercourses, sewers and natural waterways.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation (equivalent to outdoors). Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use. Other: "Empty" containers retain product residue and can be hazardous. Follow all SDS precautions in handling empty containers. Do not cut or weld on or near empty or full containers.

Storage Procedures

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.

Incompatibilities

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Tetrahydrofuran (109-99-9)

ACGIH: 50 ppm TWA 100 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 200 ppm TWA; 590 mg/m3 TWA NIOSH: 200 ppm TWA; 590 mg/m3 TWA 250 ppm STEL; 735 mg/m3 STEL

Acetone (67-64-1)

ACGIH: 500 ppm TWA

750 ppm STEL

OSHA: 1000 ppm TWA; 2400 mg/m3 TWA NIOSH: 250 ppm TWA; 590 mg/m3 TWA

Methyl ethyl ketone (78-93-3)

ACGIH: 200 ppm TWA

300 ppm STEL

OSHA: 200 ppm TWA; 590 mg/m3 TWA NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL

PVC (Chloroethylene, polymer) (9002-86-2)

ACGIH: 1 mg/m3 TWA (respirable fraction)

Cyclohexanone (108-94-1)

ACGIH: 20 ppm TWA

50 ppm STEL

Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 50 ppm TWA; 200 mg/m3 TWA
NIOSH: 25 ppm TWA; 100 mg/m3 TWA
Potential for dermal absorption

Engineering Measures

Open doors & windows. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. If used in enclosed area, use exhaust fans. Exhaust fans should be explosion-proof or set up in a way that flammable concentrations of solvent vapors are not exposed to electrical fixtures or hot surfaces.

Personal Protective Equipment: Respiratory

For operations where the exposure limit may be exceeded, a NIOSH approved organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use selfcontained breathing apparatus.

Personal Protective Equipment: Hands

Rubber gloves are suitable for normal use of the product. For long exposures chemical resistant gloves may be required such as 4H(tm) or Silver Shield(tm) to avoid prolonged skin contact.

Personal Protective Equipment: Eyes

Safety glasses with side shields or safety goggles.

Personal Protective Equipment: Skin and Body

No additional protective equipment needed.

Section 9 - Physical & Chemical Properties

Appearance: Clear Odor: Ether-like Physical State: Liquid pH: NA Vapor Pressure: 145 mmHg @ 20°C Vapor Density: 2.5

Boiling Point: 151°F (66°C) Melting Point: NA Solubility (H2O): Negligible Specific Gravity: 0.93 +/- 0.02 @ 20°C

Evaporation Rate: (BUAC = 1) = 5.5 - 8.0VOC: 80-84%

Octanol/H2O Coeff.: ND **Flash Point:** 14-23°F (-10 to -5°C)

Flash Point Method: CCCFP **Upper Flammability Limit** 11.8

(UFL):

Lower Flammability Limit 1.8 Burning Rate: ND

(LFL): Auto Ignition: ND

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid heat, sparks, flames and other sources of ignition.

Incompatible Products

Oxidizing agents, alkalis, amines, ammonia, acids, chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. May attack plastic, resins and rubber.

Hazardous Decomposition Products

Combustion will produce toxic and irritating vapors including carbon monoxide, carbon dioxide and hydrogen chloride.

Section 11 - Toxicological Information

Acute Toxicity

Component Analysis - LD50/LC50

Tetrahydrofuran (109-99-9)

Inhalation LC50 Rat 53.9 mg/L 4 h; Inhalation LC50 Rat 180 mg/L 1 h; Oral LD50 Rat 1650 mg/kg

Acetone (67-64-1)

Oral LD50 Rat 5800 mg/kg

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Mouse 32 g/m3 4 h; Oral LD50 Rat 2737 mg/kg; Dermal LD50 Rabbit 6480 mg/kg

Cyclohexanone (108-94-1)

Inhalation LC50 Rat 10.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 800 mg/kg; Dermal LD50 Rabbit 948 mg/kg

Silica, amorphous, fumed, crystalline-free (112945-52-5)

Oral LD50 Rat 3160 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause irritation with redness, itching and pain. Methyl ethyl ketone and cyclohexanone may be absorbed through the skin causing effects similar to those listed under inhalation.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Vapors may cause irritation. Direct contact may cause irritation with redness, stinging and tearing of the eyes. May cause eye damage.

Potential Health Effects: Ingestion

Swallowing may cause abdominal pain, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

Potential Health Effects: Inhalation

Vapors or mists may cause mucous membrane and respiratory irritation, coughing, headache, dizziness, dullness, nausea, shortness of breath and vomiting. High concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

Cyclohexanone has been positive in bacterial and mammalian assays. Acetone, methyl ethyl ketone and tetrahydrofuran are generally thought not to be mutagenic.

Carcinogenicity

A: General Product Information

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.

B: Component Carcinogenicity

Tetrahydrofuran (109-99-9)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

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Acetone (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

PVC (Chloroethylene, polymer) (9002-86-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Cyclohexanone (108-94-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Silica, amorphous, fumed, crystalline-free (112945-52-5)

IARC: Monograph 68 [1997] (listed under Amorphous silica) (Group 3 (not classifiable))

Reproductive Toxicity

Methyl ethyl ketone and cyclohexanone have been shown to cause embryofetal toxicity and birth defects in laboratory animals. Acetone and tetrahydrofuran has been found to cause adverse developmental effects only when exposure levels cause other toxic effects to the mother.

Specified Target Organ General Toxicity: Single Exposure

May cause respiratory irritation. Inhalation of high concentrations may cause central nervous system depression, narcosis and unconsciousness. May cause kidney, liver and lung damage.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Aspiration during swallowing or vomiting can cause chemical pneumonia and lung damage. May cause kidney and liver damage.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product is not expected to be toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Tetrahydrofuran (109-99-9)

Test & Species Conditions

96 Hr LC50 Pimephales promelas 1970-2360 mg/L

[flow-through]

96 Hr LC50 Pimephales promelas 2700-3600 mg/L

[static]

24 Hr EC50 Daphnia magna 5930 mg/L

Acetone (67-64-1)

Test & Species Conditions

96 Hr LC50 Oncorhynchus mykiss 4.74 - 6.33 mL/L 96 Hr LC50 Pimephales promelas 6210 - 8120 mg/L

[static]

96 Hr LC50 Lepomis macrochirus 8300 mg/L

48 Hr EC50 Daphnia magna 10294 - 17704 mg/L

[Static]

48 Hr EC50 Daphnia magna 12600 - 12700 mg/L

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Methyl ethyl ketone (78-93-3)

Test & Species Conditions

96 Hr LC50 Pimephales promelas 3130-3320 mg/L

[flow-through]

 48 Hr EC50 Daphnia magna
 >520 mg/L

 48 Hr EC50 Daphnia magna
 5091 mg/L

 48 Hr EC50 Daphnia magna
 4025 - 6440 mg/L

[Static]

Cyclohexanone (108-94-1)

Test & Species Conditions

96 Hr LC50 Pimephales promelas 481-578 mg/L [flow-

through]

96 Hr LC50 Pimephales promelas 8.9 mg/L 96 Hr EC50 Chlorella vulgaris 20 mg/L 24 Hr EC50 Daphnia magna 800 mg/L

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

DOT Information

For Greater than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): Flammable Liquid

For Less than 1 liter (0.3 gal):

Shipping Name: Consumer Commodity, ORM-D

IMDG Information

For Greater than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): Flammable Liquid

For Less than 1 liter (0.3 gal):

Shipping Name: Adhesives

UN #: 1133 Hazard Class: 3 Packing Group: II

Required Label(s): None (Limited Quantities are expected from labeling)

* * * Section 15 - Regulatory Information * * *

Regulatory Information

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Tetrahydrofuran (109-99-9)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Acetone (67-64-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Methyl ethyl ketone (78-93-3)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Cyclohexanone (108-94-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Tetrahydrofuran	109-99-9	Yes	Yes	Yes	Yes	Yes	No
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes	No
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	No
PVC (Chloroethylene, polymer)	9002-86-2	No	No	No	Yes	No	No
Cyclohexanone	108-94-1	Yes	Yes	Yes	Yes	Yes	No

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS#	Minimum Concentration
Tetrahydrofuran	109-99-9	1 %
Acetone	67-64-1	1 %
Methyl ethyl ketone	78-93-3	1 %
Cyclohexanone	108-94-1	0.1 %

Additional Regulatory Information

A: General Product Information

This product contains trace amounts of chemicals known to the State of California to cause cancer. Under normal use conditions, exposure to these chemicals at levels above the State of California "No Significant Risk Level" (NSRL) are unlikely. The use of proper personal protective equipment (PPE) and ventilation guidelines noted in Section 8 will minimize exposure to these chemicals.

B: Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC
Tetrahydrofuran	109-99-9	Yes	DSL	EINECS
Acetone	67-64-1	Yes	DSL	EINECS
Methyl ethyl ketone	78-93-3	Yes	DSL	EINECS
PVC (Chloroethylene, polymer)	9002-86-2	Yes	DSL	ELINCS
Cyclohexanone	108-94-1	Yes	DSL	EINECS
Silica, amorphous, fumed, crystalline-free	112945-52-5	No	DSL	No

* * * Section 16 - Other Information * * *

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None HMIS Hazard Signal: Health: 2* Flammability: 3 Reactivity: 1 PPE: G

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

End of Sheet

SAFETY DATA SHEET

United Elchem Industries

1. Identification **Product identifier**

PLASTI-WELD PVC Regular Clear Cement

Other means of identification

1100E **Product code**

30366S, 30356S **Synonyms** Joining PVC Pipes Recommended use

Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

United Elchem Industries c/o Oatey Co. **Company Name**

None known.

Address 4700 West 160th St.

Cleveland, OH 44135

Telephone 216-267-7100 E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015 **Contact person** MSDS Coordinator

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2 Health hazards Acute toxicity, oral Category 4

Not classified.

Skin corrosion/irritation Category 2 Serious eve damage/eve irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

OSHA defined hazards

Label elements



Danger Signal word

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May

cause drowsiness or dizziness.

Precautionary statement

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly Prevention

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all Response

> contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if

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you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

PVC Regular Clear Cement SDS US 2/10 Storage Disposal

Hazard(s) not otherwise classified (HNOC)

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May form explosive peroxides. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Supplemental information

Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Methyl ethyl ketone	78-93-3	25-40
Cyclohexanone	108-94-1	10-25
Furan, Tetrahydro-	109-99-9	10-25
Acetone	67-64-1	5-15
Polyvinyl chloride	9002-86-2	5-15

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

InhalationRemove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor. This product contains tetrahydrofuran that may form explosive organic peroxide when exposed to air or light or with age.

PVC Regular Clear Cement SDS US

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

containment and cleaning up

Methods and materials for

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All

equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value	
Polyvinyl chloride (CAS 9002-86-2)	STEL	5 ppm	_
3332 33 2)	TWA	1 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Cyclohexanone (CAS 108-94-1)	PEL	200 mg/m3	
,		50 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	PEL	590 mg/m3	
•		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	
,		200 ppm	
Polyvinyl chloride (CAS 9002-86-2)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.

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US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm	
·	TWA	20 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	100 ppm	
	TWA	50 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	300 ppm	
•	TWA	200 ppm	
Polyvinyl chloride (CAS 9002-86-2)	TWA	1 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	_
		250 ppm	
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m3	
		25 ppm	
Furan, Tetrahydro- (CAS 109-99-9)	STEL	735 mg/m3	
,		250 ppm	
	TWA	590 mg/m3	
		200 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
,		300 ppm	
	TWA	590 mg/m3	
		200 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexan ediol, with hydrolysis	Urine	*	
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*	
Furan, Tetrahydro- (CAS 109-99-9)	2 mg/l	Tetrahydrofura n	Urine	*	
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cyclohexanone (CAS 108-94-1) Skin designation applies.

US - Tennessee OELs: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin. Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

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Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eve wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Translucent liquid.

Clear. Color Solvent. Odor

Odor threshold Not available. Not available. Not available. Melting point/freezing point 151 °F (66.11 °C) Initial boiling point and boiling

range

-4.0 °F (-20.0 °C) Flash point

Evaporation rate 5.5 - 8

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.8

11.8

(%)

Flammability limit - upper

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

145 mm Hg @ 20 C Vapor pressure

Vapor density 25

Relative density 0.9 + / - 0.02

Solubility(ies)

Negligible Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition** temperature 80 - 500 cP **Viscosity**

Other information

VOC (Weight %) <510 g/l SCAQMD 1168/M316A

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10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

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Chemical stability

Possibility of hazardous

reactions

Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use.

Conditions to avoidAvoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

products

Acids. Strong oxidizing agents. Ammonia. Amines. Isocyanates. Caustics.

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May be fatal if swallowed and enters airways. Headache. Nausea, vomiting. May cause irritation

to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed. Harmful if swallowed. Droplets

of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Symptoms of

1540 mg/kg

overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	20 ml/kg
Inhalation		
LC50	Rat	50 mg/l, 8 Hours
Oral		
LD50	Rat	5800 mg/kg
Cyclohexanone (CAS 108-9	94-1)	
Acute		
Dermal		
LD50	Rabbit	948 mg/kg
Inhalation		
LC50	Rat	8000 ppm, 4 hours
Oral		

^{*} Estimates for product may be based on additional component data not shown.

Rat

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

LD50

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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Carcinogenicity

In 2012 USEPA Integrated Risk Information System (IRIS) reviewed a two species inhalation lifetime study on THF conducted by NTP (1998). Male rats developed renal tumors and female mice developed liver tumors while neither the female rats nor the male mice showed similar results. Because the carcinogenic mechanisms could not be identified clearly in either species for either tumor, the EPA determined that the male rat and female mouse findings are relevant to the assessment of carcinogenic potential in humans. Therefore, the IRIS review concludes that these data in aggregate indicate that there is "suggestive evidence of carcinogenic potential" following exposure to THF by all routes of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans. Polyvinyl chloride (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2)

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness. Respiratory tract irritation.

Cancer

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Components Spe		Test Results
Acetone (CAS 67-64	4-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimer	phales promelas) > 100 mg/l, 96 hours
Cyclohexanone (CA	AS 108-94-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimer	phales promelas) 481 - 578 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1)		-0.24
Cyclohexanone (CAS 108-94-1)		0.81
Furan, Tetrahydro- (CAS 109-99-9)		0.46
Methyl ethyl ketone (CAS 78-93-3)		0.29

No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

products **Disposal instructions**

Contaminated packaging

Local disposal regulations Hazardous waste code

Waste from residues / unused

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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/interna tional regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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14. Transport information

DOT

UN number UN1133 **UN** proper shipping name Adhesives

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions T11, TP1, TP8, TP27

Packaging exceptions 150 Packaging non bulk 201 Packaging bulk 243

IATA

UN1133 **UN number UN** proper shipping name Adhesives

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1133 UN proper shipping name **ADHESIVES**

Transport hazard class(es) Class 3 Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No. **EmS** F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2) Cancer

Not available.

Central nervous system

Liver Blood Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1) LISTED Cyclohexanone (CAS 108-94-1) LISTED Furan, Tetrahydro- (CAS 109-99-9) LISTED Methyl ethyl ketone (CAS 78-93-3) LISTED

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532 Methyl ethyl ketone (CAS 78-93-3) 6714

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3) Polyvinyl chloride (CAS 9002-86-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9) Methyl ethyl ketone (CAS 78-93-3)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Cyclohexanone (CAS 108-94-1) Furan, Tetrahydro- (CAS 109-99-9)

Methyl ethyl ketone (CAS 78-93-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

 Country(s) or region
 Inventory name
 On inventory (yes/no)*

 Canada
 Domestic Substances List (DSL)
 Yes

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Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-27-2015

Revision date -

Version # 01

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0

NFPA ratings



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Oatey Co. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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1. Product and Company Identification

PRODUCT NUMBER: 1288 COMPANY PHONE: 1-800-241-8180

PRODUCT NAME: CLEAR SEAL EMERGENCY TELEPHONE: 1-800-241-8180

SIGNAL WORD:

WARNING

SYMBOL:

1-800-535-5053

PRODUCT DESCRIPTION: Multipurpose Clear RTV Silicone INFOTRAC:

Adhesive/Sealant/Caulker COMPANY INFORMATION: PRO CHEM, INC.

1475 Bluegrass Lakes Parkway

Alpharetta, GA 30004

2. Hazards Identification

GHS CLASSIFICATION:
This material is considered becarding by the OSHA Hezerd

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200). Gases under pressure: Liquefied gas. Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2

For this product, the ignition distance test and the flammability test do not apply. Therefore, the final product is non-flammable.

HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

Causes skin irritation.

PRECAUTIONARY STATEMENTS:

General:

Read label before use.

Keep out of reach of children.

If medical advice is needed, have product container or label at hand.

Prevention:

Wear protective gloves.

Wear eye or face protection.

Wash hands thoroughly after handling.

Response:

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage:

Protect from sunlight.

Store in a well-ventilated place.

Disposal: Not applicable.

HAZARDS NOT OTHERWISE SPECIFIED:

None known.

3. Composition / Information on Ingredients						
CHEMICAL NAME	CAS	CONCENTRATION % by WEIGHT	PURE SUBSTANCE CLASSIFICATION			
Triacetoxyethylsilane	17689-77-9	1-5	ACUTE TOXICITY (oral)-Category 4			
			SKIN CORROSION/IRRITATION-Category 1B			
			SERIOUS EYE DAMAGE/EYE IRRITATION-Category 1			
Methylsilanetriyl triacetate	4253-34-3	1-5	ACUTE TOXICITY (oral)- Category 4			
			SKIN CORROSION/IRRITATION- Category 1C			
			SERIOUS EYE DAMAGE/EYE IRRITATION-Category 1			
1, 1-Difluoroethane	75-37-6	1-5	FLAMMABLE GASES-Category 1			
			GASES UNDER PRESSURE- Liquefied gas			

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 20 minutes. Get medical attention.

SKIN: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Product Name: CLEAR SEAL
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INGESTION:

Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick, as vomiting may be dangerous. Do not induce vomiting unless directed to do so my medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Potential Acute Health Effects:

Eye contact: Causes serious eye irritation.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat, and stomach.

Over-Exposure Signs/Symptoms:

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following: Irritation, redness.

Ingestion: No known significant effects or critical hazards.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to Physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific Treatments: No specific treatment.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use an extinguishing agent suitable for the surrounding fire.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

No specific fire or explosion hazard.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Decomposition products may include the following materials: Carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides, metal oxide/oxides.

SPECIFIC FIRE-FIGHTING METHODS:

No special precaution is required.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Non-emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled materials. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel." ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Avoid dispersal of spilled materials and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Small Spill: Move containers from spill area. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large Spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, watercourses, basements, or confined areas. Do not dry sweep. Dispose of via a licensed waste disposal contractor. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and Storage

SAFE HANDLING:

Protective Measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin, and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

General Occupational Hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. See also Section 8 for additional information on hygiene measures.

SAFE STORAGE & INCOMPATIBILITIES:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10), and food and drink. Protect from sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Product Name: CLEAR SEAL Pro Chem Inc Product Number: 1288 Revision Date: 8/16/2019 Page 2 of 6

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS:

United States: None.

Mexico:

INGREDIENT NAME EXPOSURE LIMITS

Silicon dioxide NOM-010-STPS (Mexico, 9/2000).

LMPE-PPT: 3 mg/m³ 8 hours. Form: breathable particulates LMPE-PPT: 10 mg/m³ 8 hours. Form: inhalable particulates

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

PERSONAL PROTECTIVE EQUIPMENT:



EYE/FACE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or gases. If contact is possible, the following protections should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

SKIN PROTECTION: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products, if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

RESPIRATORY PROTECTION: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

GENERAL HYGIENE CONSIDERATIONS: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation locations.

9. Physical & Chemical Prop	perties		
APPEARANCE:		FLAMMABILITY(solid/gas):	Not available.
Physical State:	Solid (paste).	Upper/Lower Explosive Limit:	Not available.
Color:	Clear.	VAPOR DENSITY:	Not available.
ODOR:	Acetic acid odor.	VAPOR PRESSURE:	Not available.
ODOR THRESHOLD:	Not available.	RELATIVE DENSITY:	1.007
pH:	Not available.	SOLUBILITY (water):	Not available.
MELTING POINT:	Not available.	AUTO-IGNITION TEMP:	Not available.
BOILING POINT:	Not available.	DECOMPOSITION TEMP:	Not available.
FLASH POINT:	Closed cup: >100°C (>212°F).	PARTITION COEFFICIENT (noctanol/water):	Not available.
SADT:	Not available.	BURNING TIME:	Not available.
EVAPORATION RATE:	Not available.	BURNING RATE:	Not available.
VISCOSITY:	Not available.		

10. Stability & Reactivity Information

REACTIVITY:

No specific test date related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY:

The product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Under normal conditions of storage and use, hazardous reactions will not occur.

INCOMPATIBLE MATERIALS:

Reactive or incompatible with the following materials: oxidizing materials.

CONDITIONS TO AVOID:

No specific data.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under normal condition of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information					
ACUTE TOXICITY					
Product/Ingredient Name	Result	Species	Dose	Exposure	
Methylsilanetriyl triacetate	LD50 Oral	Rat	2060 mg/kg		_

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IRRITATION/CORROSION

Product/Ingredient Name Result Species Score Exposure Observation

Silica Eyes-Mild irritant Rabbit -- 24 hours 25 mg

SENSITIZATION:

There is no data available.

MUTAGENICITY:

There is no data available.

CARCINOGENICITY:

There is no data available.

REPRODUCTIVE TOXICITY:

There is no data available.

TERATOGENICITY:

There is no data available.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):

There is no data available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):

There is no data available.

ASPIRATION HAZARD:

There is no data available.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:

Dermal contact. Eye contact. Inhalation. Ingestion.

POTENTIAL ACUTE HEALTH EFFECTS
Eye Contact: Causes serious eye irritation.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Eye: Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation: No known significant effects or critical hazards.

Skin: Adverse symptoms may include the following: irritation, redness.

Ingestion: No known significant effects or critical hazards.

DELAYED & IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:

Short-Term Exposure:

Immediate: No known significant effects or critical hazards. Delayed: No known significant effects or critical hazards.

Long-Term Exposure:

Immediate: No known significant effects or critical hazards. Delayed: No known significant effects or critical hazards.

Potential Chronic Health Effects:

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental: No known significant effects or critical hazards.
Fertility: No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY:

Acute Toxicity Estimates: There is no data available.

12. Ecological Information

TOXICITY:

There is no data available.

PERSISTENCE AND DEGRADABILITY:

There is no data available.

BIOACCUMULATIVE POTENTIAL: There is no data available.

MOBILITY IN SOIL:

Soil/Water Partition Coefficient (Koc): There is no data available.

OTHER ADVERSE EFFECTS:

No known significant effects or critical hazards.

13. Disposal Consideration

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewerunless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

14. Transportation Information

DOT: UN NUMBER: UN1950

UN PROPER SHIPPING NAME: Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane).

TRANSPORT HAZARD CLASS(ES):

Class: 2.1 PACKING GROUP: --

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ENVIRONMENTAL HAZARDS: No.

REMARKS: Limited Quantity Exemption.

IATA: UN NUMBER: UN1950

UN PROPER SHIPPING NAME: Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane).

TRANSPORT HAZARD CLASS(ES):

Class: 2.1

PACKING GROUP: --

ENVIRONMENTAL HAZARDS: No. **REMARKS:** Limited Quantity Exemption.

IMDG: UN NUMBER: UN1950

UN PROPER SHIPPING NAME: Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane).

TRANSPORT HAZARD CLASS(ES):

Class: 2.1

PACKING GROUP: --

ENVIRONMENTAL HAZARDS: No. **REMARKS:** Limited Quantity Exemption.

SPECIAL PRECAUTIONS FOR USER:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not available

15. Regulatory Information

US FEDERAL REGULATIONS:

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act (CAA) 112 regulated flammable substances: 1,1-Difluoroethane

CLEAN AIR ACT SECTION 112 (B) HAZARDOUS AIR POLLUTANTS (HAPs):

Not listed

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES:

Not listed

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES:

Not listed.

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS):

Not listed.

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS):

Not listed.

SARA 302/304:

COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.

SARA 304 RQ:

Not applicable

SARA 311/312

CLASSIFICATION: Sudden release of pressure immediate (acute) health hazard.

			Sudden Release		Immediate (acute)	Delayed (chronic)
Chemical Name	%	Fire Hazard	of Pressure	Reactive	health hazard	health hazard
Triacetoxyethylsilane	1-5	No.	No.	No.	Yes.	No.
Methylsilanetriyl triacetate	1-5	No.	No.	No.	Yes.	No.

STATE REGULATIONS:

Massachusetts: The following components are listed: Silicon dioxide; 1,1-Difluoroethane

New York: None of the components are listed.

New Jersey: The following components are listed: 1,1-Difluoroethane Pennsylvania: The following components are listed: Silicon dioxide

California Prop 65: No products were found.

INTERNATIONAL INVENTORIES:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I CHEMICALS:

Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II CHEMICALS:

Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III CHEMICALS:

Not listed.

16. Other Information

KEY TO ABBREVIATIONS:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

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IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. \
("Marpol" = marine pollution)

UN = United Nations

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.

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Pro Chem Inc
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PRUETT-SCHAFFER CHEMICAL COMPANY

SAFETY DATA SHEET

1. PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME: PVC TOUCH UP COMPOUND EXTERIOR GRAY PRINT DATE: May 4, 2020

PRODUCT CODE: 45-1

RECOMMENDED USE: Industrial Paint

USES ADVISED AGAINST:

MANUFACTURER: Pruett-Schaffer Chemical Company

3327 Stafford Street Pittsburgh, PA 15204

Phone: 412-771-2000 Fax: 412-771-2205

EMERGENCY PHONE 1-800-633-8253 (PERS)

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS):

Highly Flammable Liquid and Vapor (Category 2), H225 (chapter 2.6)

Health Hazards:

<u>Acute toxicity -</u> Category 4 H302 + H312 + H332

Oral (chap. 3.1)
Dermal (chap. 3.1)
Inhalation (chap. 3.1)

Specific target organ toxicity – repeated exposure Category 2 H373

Eye damage/irritation- (chap. 3.3) Category 2B H320

• Aspiration hazard - (chap. 3.10) Category 1 H304

• Chronic aquatic toxicity - (chap. 4.1) Category 3 H412

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:

PICTOGRAMS:



SIGNAL WORD: Danger

• HAZARD STATEMENT(S):

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

• PRECAUTIONARY STATEMENTS:

GENERAL HAZARDS:

P101/P103 If medical advice is needed, have product container or label at hand.

Read label before use.

2. HAZARDS IDENTIFICATION - cont.

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 - cont.

• PRECAUTIONARY STATEMENTS - cont.:

PHYSICAL HAZARDS:

P210	Keep away from heat, sparks, open flames and hot surfaces. – NO SMOKING.
P211	Do not spray on an open flame or other ignition source.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical equipment/lighting/ventilation equipment.
P242	Use only non-sparking tools.
P260	Do not breath dust/fume/gas/mist/spray/vapors.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear face protection, protective gloves, protective clothing.
P284	Wear respiratory protection.

HEALTH HAZARDS:

P308/P313	If exposed or concerned: Get medical advice.			
P342/P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.			
P305/P351/P338	IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P337/P313	If eye irritation persists: Get medical attention.			
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
P303/P361/P353	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing Rinse skin with soap and water.			
P333/P313	If skin irritation or rash occurs: Get medical attention.			
P301/P310	IF SWALLOWED: DO NOT INDUCE VOMITING. Immediately call a POISON CENTER or doctor.			
P363	Wash contaminated clothing before reuse.			

ENVIRONMENTAL HAZARDS:

P391/P502 Collect spillage. Refer to manufacturer for information on recovery.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

- May cause headache, dizziness, nausea, irritation of the nose, throat, and respiratory tract, and loss of coordination.
- Severe overexposure may produce anesthesia or unconsciousness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

- Eye contact may cause irritation, redness, and tearing, and blurred vision.
- Skin contact may cause irritation and redness.
- Long term skin exposure may dry and defat the skin, causing cracking, and in severe cases, dermatitis.

2. HAZARDS IDENTIFICATION - cont.

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 - cont.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

• Ingestion can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC):

- Breathing high concentrations of aerosols or mists of this material may cause nausea and irritation of the nose, throat, and respiratory tract.
- Acute overexposure to solvent fumes during air drying of this product may cause headache, dizziness, nausea, and loss of coordination.
- Chronic overexposure to solvent fumes may cause central nervous system damage.

SIGNIFICANT DATA ON MIBK WITH POSSIBLE RELEVANCE TO HUMANS

In tests with laboratory animals, methyl isobutyl ketone (MIBK) produced evidence of embryo fetal toxicity at exposure levels which were toxic to mothers, but no evidence was obtained for teratogenicity, or for embryo fetal toxicity, at levels which did not affect the mothers. Results from five mutagenicity assays with different genetic endpoints indicate that MIBK does not produce activity typical of that of chemical mutagens. Additional studies have shown that MIBK is toxic if aspirated. It is known to enhance the neurotoxicity of linear 6 carbon solvents.

CARCINOGENICITY:

• NTP: No IARC MONOGRAPHS: Yes OSHA REGULATED: No

CHRONIC EFFECTS OF CARBON BLACK OVEREXPOSURE

• The carbon black component of this formula is an IARC listed Group 2B substance, considered by IARC to be a "Possible human carcinogen". Carbon black is not designated as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Administration (OSHA). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies carbon black as A4, "Not classifiable as a human carcinogen". Carbon black is not presently listed by California Proposition 65, but the California Office of Environmental Health Hazard Assessment (OEHHA) published on October 29, 1999 a Notice of Intent to List "Carbon Black (airborne particles of respirable size)" as a "substance known to the State to cause cancer".

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

This product may contain trace amounts of residual vinyl acetate. Vinyl acetate has been identified by IARC as a potential human carcinogen. Lifetime exposure to high vapor concentrations (600 ppm) of vinyl acetate caused malignant and benign tumors of the respiratory tract of rats, but not of mice; this response possibly being associated with the irritant effect. Vinyl acetate has been tested for carcinogenic potential in rats in two separate drinking water studies. In one study in which animals were exposed to concentrations up to 0.5% in water, there was no evidence of carcinogenicity. In the second study, conducted at higher concentrations (up to 1% in water), evidence of cancer in the stomach and oral cavities was observed. There is no evidence that vinyl acetate has caused cancer in humans. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of vinyl acetate below the recommended exposure limit.

Male rats receiving vinyl acetate at high concentrations in drinking water (0.5%) for two Generations possible demonstrated a decreased ability to produce offspring.

2. HAZARDS IDENTIFICATION - cont.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

 Overexposure to solvent fumes may aggravate anesthesia, respiratory tract disease or pre-existing lung disorders, nausea, and vomiting.

3. COMPOSITION/INFORMATION ON INGREDIENTS

				VAPOR	@	
REPORTABLE			CAS#	PRESSURE	TEMP.	WEIGHT
COMPONENTS				mm Hg	DEGREE F	PERCENT
*Methyl Isobutyl Ketone	ACGIH TWA8	50 ppm, or	108-10-1	15	68	32.43
4-Methyl-2-pentanone	TLV:	205 mg/m3,				
(MIBK)		75 ppm STEL.				
		100 ppm mg/m3.				
	OSHA TWA8 PEL:	50 ppm, TWA8,				
	OSHA:	205 mg/m3, TWA8,				
		75 ppm STEL,				
		300 mg/m3 STEL.				
*Toluol	ACGIH TWA TLV:	50 ppm.	108-88-3	26	77	24.11
(methyl benzene)	OSHA PEL:	200 ppm TWA,				
		150 ppm STEL.				
Vinyl Chloride - Vinyl			9003-22-9			21.31
Acetate - Maleic Acid						
Polymer						
Titanium Dioxide,	ACGIH TLV:	10 mg/m3	13463-67-7	0	0	6.44
Inert pigment	OSHA PEL:	15 mg/m3				
	OTHER TLV:	10 mg TWA.				
Diisodecyl Phthalate			68515-49-1			5.54
Mica, inert pigment	ACGIH TLV:	3 mg/m3	12001-26-2	0	0	3.82
	OSHA PEL:	20 Mppcf				
Amorphous Fused Silica	ACGIH TLV:	20 Mppcf	68909-20-6	0	0	1.95
	OSHA PEL:	20 Mppcf				
Carbon Black Pigment	ACGIH TLV:	3.5 mg/m3 TWA	1333-86-4	0	0	1.67
	OSHA PEL:	3.5 mg/m3 TWA				
Organoclay			68911-87-5			1.44
Yellow Iron Oxide	ACGIH TLV:	5 mg/m3	51274-00-1	0	0	0.33
Inert pigment	OSHA PEL:	10 mg/m3				
Red Iron Oxide	ACGIH TLV:	5 mg/m3	1309-37-1	0	0	0.16
Inert pigment	OSHA PEL:	10 mg/m3				
Acetone	ACGIH TLV:	500 ppm TWA,	67-64-1	157	68	0.11
		750 ppm STEL (C)				
	OSHA PEL:	1000 ppm TWA.				
Vinyl Acetate	ACGIH:	10 ppm TWA8,	108-05-4	0	0	0.02
as an impurity in raw		15 ppm STEL.				
material	OSHA:	10 ppm TWA8,				
		20 ppm STEL.				

3. COMPOSITION/INFORMATION ON INGREDIENTS

Indicates toxic chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

Legend: C Ceiling Limit Mppcf Million Particles per Cubic Foot

S Skin Limit TWA 8 HR Time Weighted Average

STEL Short Term Exposure Limit

4. FIRST-AID MEASURES

Inhalation

Move victim to fresh air. Give artificial respiration if victim is not breathing and seek immediate medical attention. NOTE: Use supplied-air respirator for rescue in enclosed areas. If symptoms persist, call a physician.

Skin

Wash skin immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Avoid repeated contact with substance. If skin irritation occurs, call a physician.

Eyes

Flush with large amounts of tepid water for at least 15 minutes, and seek medical advice. Call a physician immediately.

Ingestion

Do NOT induce vomiting. If aspirated, material can cause chemical pneumonitis or pulmonary edema. Call a physician or poison center immediately. If person is drowsy or unconscious and vomiting, place on the left side with head down, and seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

NFPA: Health: 2 Flammability: 3 Instability: 1



FLASH POINT: 41 F METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.2 UPPER: 12.8

Suitable Extinguishing Media:

Use CO2 or dry chemical for small fires. Use alcohol type aqueous film forming foam for large fires.

Special Exposure Hazards Arising from the Substance or Mixture:

Under conditions giving incomplete combustion, hazardous gases produced may consist of carbon monoxide. Vapors are heavier than air and may spread along floors.

Oxidizing chemicals may accelerate the burning rate in a fire situation. If potential for exposure to vapors or Products of combustion exists, wear full fire-fighting turnout gear and NIOSH approved self-contained breathing apparatus.

5. FIRE-FIGHTING MEASURES - cont.

Unusual Fire and Explosion Hazards:

- Pressure may build up in tightly closed containers exposed to fire which may result in rupture.
- Vapors may travel a considerable distance to a source of ignition or collect in low areas.

Environmental Precautions:

Dike and collect water used to fight fire.

Advice for Firefighters:

- Wear self-contained breathing apparatus.
- Wear full chemical protective clothing.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Keep onlookers away.
- Dike runoff to prevent entry into sewers, storm drains and watercourses.
- USE CAUTION AFTER FIRE IS EXTINGUISHED, VAPORS OR LIQUID MAY REIGNITE.
- Use water spray to cool containers exposed to fire.
- Notify appropriate State and Local Agencies.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Wear appropriate protective clothing including gloves.
- Use respirator.
- Provide ventilation.
- Only touch damaged containers or spilled material when wearing appropriate protective clothing and gloves.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Recover free liquid by shoveling into container using non-sparking tools or add absorbent such as sand or earth to spill and sweep up.

Environmental Precautions:

- Dike to prevent entry into sewers or surface waters.
- Notify proper authorities if spill contaminates land or waterways.

Cleanup

- Store soaked rags or absorbent material in airtight containers to prevent spontaneous combustion of material.
- Absorbent materials may emit flammable vapors.
- Dispose of in chemical landfill or incinerate assuring conformity to all applicable Federal,
 State and Local governing regulations.

7. HANDLING and STORAGE

Handling

- Keep containers away from flame, heat and other ignition sources No Smoking.
- Use non-sparking alloy tools and explosion-proof equipment for handling.
- Bond and ground equipment in accordance with OSHA 29, CFR 1910.106 and NFPA 77, when transferring from one vessel to another.

7. HANDLING and STORAGE – cont.

Handling - cont.

- Do not inhale vapors or mists.
- Use with adequate ventilation AND wear a respirator.

Other Handling Precautions

- Empty containers retain product residue and may be dangerous.
- Do not pressurize, cut, weld, braze, solder, drill or grind on or near containers whether full or empty.
- Do not reuse containers without professional reconditioning and testing.

Storage

- Store away from flame, heat, sparks or other sources of ignition.
- Store inside away from extreme temperature variations.
- Protect containers from physical damage.
- Keep containers tightly closed when not in use.
- Store in a well-ventilated place.
- Do not remove warning labels from containers.

Incompatible materials or ignition sources

- Keep away from incompatible materials, especially food or animal feed.
- Keep away from flame, heat, sparks or other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures/Controls:

- Use good general mechanical ventilation and local exhaust adequate to reduce the concentration of vapors or mists of the listed hazardous materials to below the Threshold Limit Value (s) and the Lower Explosion Limit.
- Ventilation equipment must be explosion-proof.

Personal Protective Equipment:

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment; Mine Safety Appliance #475217 pressure/demand air-supplied respirator or equivalent.
- Follow the OSHA respirator regulations found in 29 CFR 1910.134.
- Use Mine Safety Appliance respirator #448849 with organic vapor cartridge and mist filter, or equivalent, if air monitoring demonstrates that the concentration of listed hazardous materials exceeds the recommended TLV's.

Eye / Face

Wear safety goggles or full face shields, as necessary.

Hands

• Wear protective gloves –chemically resistant type.

Skin / Body

 Use impervious apron or coveralls to prevent contaminating street clothes which may result in prolonged exposure. The use of head caps or helmets is recommended.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION - cont.

General Industrial Hygiene Considerations:

- Handle in accordance with good industrial hygiene and safety practice.
- Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
- Safety shower and eye wash should be available close to work areas.
- Remove saturated clothing or shoes at once; launder all used clothing before reuse.

Environmental Exposure Controls:

• Follow best practice for site management and disposal of waste. Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 134° F - 241° F SPECIFIC GRAVITY: 1.04

VAPOR DENSITY: Heavier than air EVAPORATION RATE: Slower than ether.

COATING VOC: 4.89 lb/gal MATERIAL VOC: 4.88 lb/gal

ORGANIC SOLVENT, PERCENT BY WEIGHT: 56.547 ORGANIC SOLVENT, PERCENT BY VOLUME: 70.911

COATING DENSITY, LB/GAL: 8.635 SOLUBILITY IN WATER: Insoluble

APPEARANCE and ODOR: Viscous, opaque liquid with a paint thinner-like odor.

10. STABILITY AND REACTIVITY

Reactivity:

• No dangerous reaction known under conditions of normal use.

Chemical Stability:

• Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

- Sources of ignition.
- Poor ventilation
- Corrosive atmosphere
- Liquids which may damage containers.

Incompatible Materials to Avoid:

Oxidizing agents, strong acids and bases.

Hazardous Decomposition or By-Products:

• In case of fire, carbon dioxide, carbon monoxide and other toxic gases may be produced.

11. TOXICOLOGICAL INFORMATION

<u>Target Organs:</u> Central Nervous System (CNS)

Routes of Entry Exposure: Inhalation, Skin, Eye, Ingestion

11. TOXICOLOGICAL INFORMATION - cont.

<u>Carcinogenicity:</u> NTP: No IARC MONOGRAPHS: Yes OSHA REGULATED: No

Substances Classified by IARC (International Agency for

Research on Cancer): CAS #9003-22-9 Polyvinyl Chloride-Polyvinyl Acetate Copolymer: 3

Potential Health Effects:

Inhalation

Acute (Immediate) Breathing high concentrations of aerosols or mists of this material may cause

nausea and irritation of the nose, throat, and respiratory tract.

Acute over exposure to solvent fumes during air drying of this product may cause

headache, dizziness, nausea, and loss of coordination.

Severe overexposure may produce anesthesia or unconsciousness.

Chronic (Delayed)

Chronic overexposure to solvent fumes may cause central nervous system damage.

<u>Skin</u>

Acute (Immediate) Skin contact may cause skin irritation and redness.

Chronic (Delayed) Long term skin exposure may dry and defat the skin causing cracking, and in severe

cases dermatitis.

<u>Eye</u>

Acute (Immediate) Eye contact may cause irritation, redness, tearing and blurred vision.

Chronic (Delayed) No data available.

Ingestion

Acute (Immediate) Ingestion can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

Chronic (Delayed) No data available.

Medical Conditions Generally

aggravated by exposure: Overexposure to solvent fumes may aggravate anesthesia, respiratory tract

disease or pre-existing lung disorders, nausea and vomiting.

12. ECOLOGICAL INFORMATION

(1) MIBK - CAS #108-10-1:

Toxicity to fish: LC50 (Danio rerio (zebra fish)) 96 hours: > 100 mg/l; static test.

(literature value)

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test.

Invertebrates:

(literature value)

Toxicity to algae: No data available.

Chronic toxicity to NOEC (Daphnia magna (Water flea)) 21 d: > 10 – 100 mg/l; semi-static test;

Aquatic Invertebrates: OECD Test Guideline 211.

(literature value)

Biodegradation: Readily biodegradable.

OECD Test Guideline 301F (28 d): > 60%.

(literature value)

Bioaccumulation: No bioaccumulation is to be expected (Log POW <= 4).

12. ECOLOGICAL INFORMATION - cont.

(1) MIBK - CAS #108-10-1 - cont.:

Mobility in soil: No data available.

Other adverse effects: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

(2) Toluol – CAS #108-88-3:

Chronic effect Carcinogenicity:

ACGIH: A4-Not classifiable as a Human Carcinogen.

OSHA: Possible select carcinogen. IARC: Group 3 carcinogen.

Epidemiology: Not available.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Neurotoxicity: Not available. Mutagenicity: Not available. Ecotoxicity: LC50 (96 hr.).

Fish: $7.3\sim22.8 \text{ mg/l EC50 (48 hr.)}.$

Water flea: Bioconcentration factor (BCF): $1.67 \sim 380$.

(3) VINYL CHLORIDE - VINYL ACETATE - MALEIC ACID POLYMER - CAS #9003-22-9:

- Persistence and Degradability: No data available.
- Bioaccumulative Potential: No data available.

13. DISPOSAL CONSIDERATIONS

- V STORE soaked rags or absorbent material in airtight containers to prevent spontaneous combustion of material.
- Absorbent materials may emit flammable vapors. Dispose of in chemical landfill or incinerate assuring conformity to all applicable local, State and Federal governing regulations.

14. TRANSPORT INFORMATION

Additional Hazardous Material Information:

SHIPPING INFORMATION:

UN / NA ID No.: UN 1263

DOT Hazard Class: 3 (Flammable Liquid)

Packing Group: II

DOT Hazardous Material Proper Shipping Name: Flammable Liquid, Paint

15. REGULATORY INFORMATION

Shown here are the statutes and regulations that cover all of the components shown under Section 3 of this SDS with an asterisk.

I. UNITED STATES EPA SARA Title III: Hazardous Components

The Emergency Planning and Community Right-to-Know (EPCRA) of 1986, also known as SARA Title III, establishes emergency planning and reporting for industry and government, and gives communities the necessary tools for planning and responding to the potential release of hazardous waste.

Definition of terms:

SARA Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and

Community Right-to-Know Act of 1986) passed October 17, 1986.

SARA amends the CERCLA, or Superfund.

15. REGULATORY INFORMATION – cont.						
Definition of terms – cont.:						
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) passed October 17, 1986. SARA amends the CERCLA, or Superfund.					
CERCLA Comprehensive Environmental Response, Compensation and Liability Act passed by the U.S. Congress in 1980 to help solve the problems of hazardous waste sites.						
SARA § 302 -	 Extremely Hazardous Substantine *indicates 10000 LB TPQ if not 		hreshold planning quant	ity (TPQ) listed in pounds.		
	Components	CAS #	Component EHS	Component TPQ		
	MIBK	108-10-1 No chemicals in this material are subject to the reporting requirements of SARA § 302				
SARA § 304 – CERCLA Reportable + § 302 with Reportable Quantity (RQ). **indicates statutory RQ.			Quantity (RQ) .			
	Components	CAS#	Typical Value	Component RQ		
	MIBK	108-10-1	5,000 Lb.	100%		
SARA § 110	- Superfund Site Priority Contan	ninant List				
	None of the ingredients in our Sec. 3 are listed for § 110.					

II. U.S. EPA SARA Title III Hazard Categories § 311/312 : Hazard Categories

The material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Chemical Name	CAS No.		
MIBK	108-10-1	[X] Yes [] No	Acute (immediate) Health Hazard
		[X] Yes [] No	Chronic (delayed) Health Hazard
		[X] Yes [] No	Fire Hazard
		[] Yes [X] No	Reactive Hazard
		[] Yes [X] No	Sudden Release of Pressure Hazard
Toluol	108-88-3	Not listed for §	311/312.
Vinyl Chloride-Vinyl Acetate- Maleic Acid Polymer	9003-22-9	Not listed for §	311/312.

SARA § 313 – Toxic Release Inventory (TRI): - Cat indicates a member of a chemical category.

Components	CAS #	Typical Value
MIBK	108-10-1	<= 100.0%
Toluol	108-88-3	Not listed for § 313.
Vinyl Chloride-Vinyl Acetate- Maleic Acid Polymer	9003-22-9	Not listed for § 313.

SARA § **355** – Extremely Hazardous Substances.

Components	CAS #	Typical Value

No ingredients in Sec. 3 listed for § 355.

15. REGULATORY INFORMATION – cont.

III. U.S. EPA TOXIC SUBSTANCES CONTROL ACT of 1976 (TSCA):

Components	CAS#	Typical Value
MIBK	108-10-1	Not listed.
Toluol	108-88-3	Not listed.
Vinyl Chloride-Vinyl Acetate- Maleic Acid Polymer	9003-22-9	Substance is listed for TSCA.

IV. COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION and LIABILITY ACT (CERCLA) passed by U.S. Congress in 1980:

<u>Components</u> CAS # Typical Value Component RQ
No ingredients in Sec. 3 listed

V. OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200:

Components CAS # Listed
No ingredients in Sec. 3 listed

VI. CARCINOGENIC CATEGORIES, EPA,, TLV (Threshold Limit Value established by ACGIH), NIOSH-Ca, OSHA-Ca:

Components CAS # Listed
No ingredients in Sec. 3 listed

J

VII. U.S. STATE REGULATIONS:

Chemicals associated with the product which are subject to the state Right-To-Know Regulations, listed with the applicable state(s):

	Listed on State Right-To-Know								
Component	CAS No.	<u>PA</u>	<u>NY</u>	<u>NJ</u>	<u>IL</u>	<u>MA</u>	MN	<u>RI</u>	<u>FL</u>
MIBK	108-10-1	YES							
Toluol (methyl benzene)	108-88-3	YES	NO	YES	NO	YES	YES	NO	YES

VIII. CALIFORNIA PROPOSITION 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

Chemical Name	CAS No.	<u>Listed</u>
MIBK	108-10-1	No warning shown on MIBK SDS.
Toluol	108-88-3	WARNING: This product contains Toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.
Vinyl Chloride-Vinyl Acetate-Maleic Acid Polymer	9003-22-9	PVC resin contains minor amounts (< 1 ppm on average; 0.0001%) of residual vinyl chloride monomer. Vinyl chloride, CAS #75-01-4, is listed as a carcinogen under Proposition 65.
Carbon Black pigment	1333-86-4	WARNING! This product contains a chemical known to the State of California to cause cancer.

15. REGULATORY INFORMATION – cont.

IX. INTERNATIONAL REGULATIONS:

A. Chemicals associated with the product are listed on the chemical inventories of the following countries or qualifies as an exemption:

	xemption.			
			Compon	ents
		MIBK	TOLUOL	VINYL CHLORIDE-
				VINYL ACETATE-
				MALEIC ACID POLYMER
		CAS#	CAS#	CAS#
		108-10-1	108-88-3	9003-22-9
Australia	Inventory of Chemical			
	Substances (AICS)	YES		
Japan	Inventory of Existing and			
	New Chemical Substances (ENCS)	YES		
Japan	Industrial Safety & Health Law			
(ISHL) Invo	entory YES			
Canada	Domestic Substances List			
	(DSL) Inventory	YES	YES	YES
Canada	Non-Domestic Substance			
	Listing (NDSL)	NO	YES	NO
European	Inventory of Existing			
	Commercial Chemical			
	Substances (EINECS)	YES		
Philippine	sInventory of Chemicals/			
	Chemical Substances (PICCS)	YES		
Korea	Existing Chemicals Inventory			
	(KECI)	YES		

B. WHMIS Classification:

Components	CAS #	<u>Listed</u>
MIBK	108-10-1	Class B, Division 2: Flammable Liquid
		Class D, Division 2, Subdivision A: Very toxic material
		Class D, Division 2, Subdivision B: Toxic material
Toluol	108-88-3:	

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases: R 10 Flammable. R 20 Harmful by inhalation.

Safety Phrases: S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking. S 25 Avoid contact with eyes. S 29 Do not empty into drains. S 33 Take precautionary measures against static discharges.

15. REGULATORY INFORMATION – cont.

B. WHMIS Classification - cont.:

Components CAS # Listed

Toluol – cont. 108-88-3:

WGK (Water Danger/Protection)

CAS# 108-88-3: 2

United Kingdom Occupational Exposure Limits

CAS# 108-88-3: OES-United Kingdom, TWA 50 ppm TWA; 191 mg/m3 TWA. CAS# 108-88-3: OES-United Kingdom, STEL 150 ppm STEL; 574 mg/m3 STEL.

CANADA

CAS#100-42-5 is listed on Canada's DSL/NDSL list.

This product has a WHMIS classification of B2, D2A (99%)/B3, D2A (100%). CAS# 105-05-5 is not listed on Canada's Ingredient Disclosure List.

16. OTHER INFORMATION

HMIS III rating:

Health: 2 Flammability: 3 Reactivity: 0 Physical Hazard: C & H HMIS III uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates extreme danger. The HMIS III system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

SDS Prepared By: Pruett-Schaffer Chemical Corporation

Last Revision Date: May 1, 2020 Preparation Date: May 4, 2020

Disclaimer/Statement of Liability

• The information and recommendations contained herein are presented in good faith and believed to be accurate. It is provided for your guidance only. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, ARE MADE REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION PRESENTED, OR THAT THE PRODUCTS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING ON THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. Pruett-Schaffer Chemical Corporation makes no warranty concerning the accuracy of the information contained herein and will not be held liable for claims relating to any party's use of or reliance on information contained herein. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Pruett-Schaffer Chemical Corporation assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations

NDA = No data available.



PVC ELECTRICAL CONDUIT 633L

Medium body low VOC PVC solvent cement

Section 1 - Product and Company Information

Product Name HMIS Codes

PVC Electrical Conduit 633L Health 2

Flammability 3

Product Codes Flammability 3
55980, 55983, 55985, 55986, 55995, 55996, 55979 PPI B

Chemical Family

Organic Use

PVC solvent cement

Manufacturer's Name RectorSeal, LLC 2601 Spenwick Drive Houston, Texas 77055 USA

Date of Validation January 12, 2021

Date of Preparation October 15, 2019 Emergency Telephone No. Chemtrec 24 Hours (800)-424-9300 USA (703)-527-3887 International

Technical Service Telephone No. (800)-231-3345 or (713)-263-8001

Section 2 - Hazards Identification

GHS CLASSIFICATION

Physical Hazards

Flammable Liquid, Category 2

Health Hazards

Acute Toxicity:

Oral: Category 4
Dermal: Category 5
Inhalation: Category 4

Skin Corrosion/Irritation: Category 3

Serious Eye Damage/Eye Irritation: Category 2A

Skin Sensitization: Not Classified

Respiratory Sensitization: Not Classified Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Category 2

Reproductive Toxicology: Not Classified

Target Organ Systemic Toxicity - Single Exposure: Category 3
Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

GHS Label elements, including precautionary statements







GHS02: Flammable

GHS08: Severe Health Hazards GHS07: Exclamation Mark Signal Word: **Danger**

Hazard Statements:

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed.

H313 - May be harmful in contact with skin.

H316 - Causes mild skin irritation.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation

H335 + H336 - May cause respiratory irritation, and drowsiness or dizziness.

H351 – Suspected of causing cancer. Contains a chemical classified by the US EPA as a suspected possible carcinogen.

Precautionary Statements:

P102 - Keep out of reach of children.

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 - Ground/Bond container and receiving equipment.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P362 - Take off contaminated clothing and wash before reuse.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

Summary Of Acute Hazards

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

Route Of Exposure, Signs And Symptoms

INHALATION

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

EYE CONTACT

Severely irritating. If not removed promptly, will injure eye tissue, which can result in permanent damage.

SKIN CONTACT

Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.

INGESTION

Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

SUMMARY OF CHRONIC HAZARDS

Repeated or prolonged exposure may cause signs of central nervous system depression and respiratory irritation. This material has been shown to induce tumors in laboratory animals.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 3 - Composition/Information on Ingredients

Ingredient: Methyl Ethyl Ketone

Percentage By Weight: 1-12

CAS Number: 78-93-3

EC#: 606-002-00-3

Ingredient: Tetrahydrofuran

Percentage By Weight: 40-60

CAS Number: 109-99-9

EC#: 603-025-00-0

Ingredient: Cyclohexanone

Percentage By Weight: 8-18

CAS Number: 108-94-1

EC#: 606-010-00-7

Ingredient: Acetone

Percentage By Weight: 5-20

CAS Number: 67-64-1

EC#: 200-662-2

Section 4 - First Aid Measures

If inhaled: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial

respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on skin: Immediately flush with large amounts of water; use soap if available. Remove

contaminated clothing.

If in eyes: Immediately flush with large amounts of water for at least 15 minutes. Get prompt

medical attention.

If swallowed: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

Section 5 - Fire Fighting Measures

Conditions Of Flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment For Fire-Fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions (carbon oxides.)

Further Information

Use water spray to cool unopened containers.

Unusual Fire And Explosion Hazards: Extremely flammable – very low flash point. Vapors are heavier than air and may travel along ground or to low spots at considerable distance to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture closed containers.

Section 6 - Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area with natural or explosion-proof, forced air ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Avoid flushing into sewers, drains, waterways, and soil.

Methods And Materials For Containment And Cleaning Up

Use absorbent materials to prevent footing hazard and to contain, then collect and place in container for disposal according to local regulations (see section 13).

Section 7 - Handling and Storage

Precautions For Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid prolonged or repeated contact with skin or clothing. If transferring this material to other containers, ground all containers to avoid static electricity buildup and discharge which may ignite flammable vapors.

Conditions For Safe Storage

Do not store near heat, sparks, or open flames. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain residues and vapors; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

Section 8 - Exposure Controls/Personal Protection

Ingredient Units

Methyl Isobutyl Ketone

 ACGIH TLV:
 200 ppm

 OSHA PEL:
 200 ppm

 STEL:
 300 ppm

Tetrahydrofuran

 ACGIH TLV:
 50 ppm

 OSHA PEL:
 200 ppm

 STEL:
 250 ppm

Cyclohexanone

ACGIH TLV: 20 ppm (skin) OSHA PEL: 50 ppm

Acetone

ACGIH TLV: 500 ppm
OSHA PEL: 1000 ppm
STEL: 750 ppm

Respiratory Protection (Specify Type): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators.

Ventilation - Local Exhaust: Acceptable

Special: Explosion-proof equipment. **Mechanical (General):** Preferable

Other: N/A

Protective Gloves: Wear rubber gloves.

Eye Protection: Chemical splash goggles (ANSI Z-87.1 or equivalent) **Other Protective Clothing Or Equipment:** Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating,

drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 - Physical and Chemical Properties

Boiling point: 151°F (66°C) @ 760 mmHg

Specific gravity (H20 = 1): 0.91

Vapor pressure (mmHg): 129 @ 68°F (20°C)

Melting point: N/A

Vapor Density (Air = 1): 2.5

Evaporation rate (Ethyl Acetate = 1): 8 - 14.5

Appearance/Odor: Clear or Gray/Pungent odor

Solubility in water: 30%

Volatile Organic Compounds (VOC) Content

(theoretical percentage by weight): 510 g/L per SCAQMD Test Method 316A

Flash point: 4.1°F (-17°C) SETA CC

Lower explosion limit: 1.8% Upper explosion limit: 11.8%

Section 10 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Possibility Of Hazardous Reactions: Can form potentially explosive peroxides upon long standing in air. Vapors may form explosive mixture with air.

Conditions To Avoid: Heat, sparks, open flames, and strong oxidizing, acidic and basic conditions.

Incompatibility (Materials To Avoid): Oxidizers, acids and bases.

Hazardous Decomposition Products: CO, CO₂, HCl and fragmented hydrocarbons.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicology Information

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Tetrahydrofuran – The National Toxicology Program has reported that exposures of mice and rats to THF vapor levels up to 1800 ppm 6hr/day, 5 days/week for their lifetime caused an incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health are unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF.

Toxicology Data

Ingredient Name

Methyl Isobutyl Ketone

Oral-Rat LD50: 2737 mg/kg

Inhalation-Rat LC50: 23,500 mg/m3/8H

Tetrahydrofuran

Oral-Rat LD50: 1650 mg/kg Inhalation-Rat LC50: 21,000 ppm/3H

Cyclohexanone

Oral-Rat LD50: 1535 mg/kg Inhalation-Rat LC50: 8000 ppm/4H

Acetone

Oral-Rat LD50: 5800 mg/kg Inhalation-Rat LC50: 50,100 mg/m3

Section 12 - Ecological Information

Ecological Data

Ingredient Name: Methyl Isobutyl Ketone

Food Chain Concentration Potential None

Waterfowl Toxicity N/A

BOD 214%

Aquatic Toxicity 5640 mg/L/48 hr/bluegill/TLm/fresh water

Ingredient Name: Tetrahydrofuran

Food Chain Concentration Potential None

Waterfowl Toxicity N/A

BOD N/A

Aquatic Toxicity N/A

Ingredient Name: Cyclohexanone

Food Chain Concentration Potential None

Waterfowl Toxicity N/A

BOD N/A

Aquatic Toxicity N/A

Ingredient Name: Acetone

Food Chain Concentration Potential None

Waterfowl Toxicity N/A

BOD N/A

Aquatic Toxicity LC50/96-hour for fish > 100 mg/L

Section 13 - Disposal Considerations

Waste Classification: RCRA classified hazardous waste. Dispose of absorbed materials and liquid waste in approved, controlled incineration facility in accordance with all local, state and federal regulations.

Disposal Method: Incineration.

Section 14 - Transportation Information

DOT: UN1133, Adhesives, Class 3,PG II, ERG#127.

Quarts and less: Limited Quantities or Ltd. Qty

Ocean (IMDG): UN1133, Adhesives, Class 3, PG II, EMS-No: F-E, S-D

Quarts and less: Adhesives, Class 3, UN 1133, PG II, Limited Quantities or Ltd. Qty.

Air (IATA): UN1133, Adhesives, Class 3, PG II, ERG#127

WHMIS (Canada): Class B-2

Section 15 - Regulatory Information

Regulatory Data

Ingredient Name: Methyl Ethyl Ketone

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 5,000 lb.

RCRA Code U159

Ingredient Name: Tetrahydrofuran

SARA 313 No

TSCA Inventory Yes

CERCLA RQ 1,000 lb.

RCRA Code U213

Ingredient Name: Cyclohexanone

SARA 313 No

TSCA Inventory Yes

CERCLA RQ 5,000 lb.

RCRA Code U057

Ingredient Name: Acetone

SARA 313 No

TSCA Inventory Yes

CERCLA RQ 5,000 lb.

RCRA Code U002

Section 16 - Other Information

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001



RTV Silicone Clear

Version Revision Date: SDS Number: Date of last issue: 11/19/2020 4.1 10/27/2021 309430-00004 Date of first issue: 01/23/2010

SECTION 1. IDENTIFICATION

Product name : RTV Silicone Clear

Product code : 08909104

Manufacturer or supplier's details

Company name of supplier : Wurth USA Inc.

Address : 93 Grant St.

Ramsey, NJ 07446

Telephone : (201) 825-2710

Telefax : (201) 825-1643

Emergency telephone : +1 800 255 3924

E-mail address : prodsafe@wuerth.com

Recommended use of the chemical and restrictions on use

Recommended use : Sealant

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Gases under pressure : Liquefied gas

Skin corrosion : Category 1C

Serious eye damage : Category 1

Simple Asphyxiant

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H280 Contains gas under pressure; may explode if heated.

H314 Causes severe skin burns and eye damage. May displace oxygen and cause rapid suffocation.

Precautionary Statements : Prevention:

P260 Do not breathe spray.

P264 Wash skin thoroughly after handling.





RTV Silicone Clear

Version Revision Date: SDS Number: Date of last issue: 11/19/2020 4.1 10/27/2021 309430-00004 Date of first issue: 01/23/2010

P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER. P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Corrosive to the respiratory tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Triacetoxyethylsilane	17689-77-9	>= 1 - < 5
Methylsilanetriyl triacetate	4253-34-3	>= 1 - < 5
1.1-Difluoroethane	75-37-6	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.



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In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Get medical attention immediately. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention immediately.

If swallowed, DO NOT induce vomiting.

If vomiting occurs have person lean forward.

Call a physician or poison control center immediately.

Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Causes serious eye damage.

Causes severe burns.

Gas reduces oxygen available for breathing.

Causes digestive tract burns. Corrosive to respiratory system.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Hazardous combustion prod-

ucts

Carbon oxides Silicon oxides

Fluorine compounds

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.



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Special protective equipment :

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Evacuate personnel to safe areas.

Ventilate the area.

Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g., by containment or

oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine

which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Do not breathe spray. Do not swallow. Do not get in eyes.

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Keep container tightly closed. Keep away from water. Protect from moisture.

Keep away from heat, hot surfaces, sparks, open flames and



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other ignition sources. No smoking.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Store locked up.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Do not pierce or burn, even after use. Keep cool. Protect from sunlight.

Materials to avoid : Do not store with the following product types:

Self-reactive substances and mixtures

Organic peroxides Oxidizing agents Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures which in contact with water emit

flammable gases

Explosives

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis	
		exposure)	concentration		
1,1-Difluoroethane	75-37-6	TWA	1,000 ppm	US WEEL	

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Acetic acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		TWA	10 ppm 25 mg/m ³	NIOSH REL
		ST	15 ppm 37 mg/m ³	NIOSH REL
		TWA	10 ppm 25 mg/m ³	OSHA Z-1

Engineering measures : Processing may form hazardous compounds (see section

10).

Minimize workplace exposure concentrations.

If sufficient ventilation is unavailable, use with local exhaust

ventilation.



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Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks

and at the end of workday.

Eye protection : Wear the following personal protective equipment:

Chemical resistant goggles must be worn.

If splashes are likely to occur, wear:

Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide

eye flushing systems and safety showers close to the wor-

king place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Propellant : 1,1-Difluoroethane

Color : clear

Odor : vinegar-like

Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling : No data available



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range

Flash point : $> 212 \,^{\circ}\text{F} / 100 \,^{\circ}\text{C}$

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Relative density : 1.007

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Can react with strong oxidizing agents.

Hazardous decomposition products will be formed upon con-

tact with water or humid air.



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Conditions to avoid : Exposure to moisture.

Incompatible materials : Oxidizing agents

Water

Hazardous decomposition products

Contact with water or humid :

air

: Acetic acid

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

Triacetoxyethylsilane:

Acute oral toxicity : LD50 (Rat): 1,460 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Methylsilanetriyl triacetate:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

1,1-Difluoroethane:

Acute inhalation toxicity : LC50 (Rat): > 437500 ppm

Exposure time: 4 h Test atmosphere: gas

Skin corrosion/irritation

Causes severe burns.

Components:

Triacetoxyethylsilane:

Species : Rabbit

Result : Corrosive after 3 minutes to 1 hour of exposure



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Methylsilanetriyl triacetate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Triacetoxyethylsilane:

Result : Irreversible effects on the eye

Methylsilanetriyl triacetate:

Species : Rabbit

Result : Irreversible effects on the eye

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Triacetoxyethylsilane:

Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Assessment : Does not cause skin sensitization.

Methylsilanetriyl triacetate:

Test Type : Buehler Test Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : negative

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Triacetoxyethylsilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)



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Result: negative

Methylsilanetriyl triacetate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

1,1-Difluoroethane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)

Species: Rat

Application Route: inhalation (gas) Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

1,1-Difluoroethane:

Species : Rat

Application Route : inhalation (vapor)
Exposure time : 104 weeks
Result : negative

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

1,1-Difluoroethane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: inhalation (gas)

Result: negative



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Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: inhalation (vapor)

Result: negative

STOT-single exposure

Not classified based on available information.

Components:

1,1-Difluoroethane:

Assessment : May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

1,1-Difluoroethane:

Species : Rat

NOAEL : 100000 ppm Application Route : inhalation (gas)

Exposure time : 14 Days

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Triacetoxyethylsilane:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 251 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 168.7 mg/l

Exposure time: 48 h

Remarks: Data from similar compositions

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 24.41

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 18

mg/l



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Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): >= 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50: > 100 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Methylsilanetriyl triacetate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l

Exposure time: 96 h

Method: Directive 67/548/EEC, Annex V, C.1. Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (green algae)): >=

500 mg/l

Exposure time: 72 h

Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 500

mg/l

Exposure time: 72 h

Method: Directive 67/548/EEC, Annex V, C.3. Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10: > 100 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Persistence and degradability

Components:

Triacetoxyethylsilane:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 74 % Exposure time: 21 d

Methylsilanetriyl triacetate:

Biodegradability : Result: Readily biodegradable.



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Biodegradation: 74 % Exposure time: 21 d

Method: Directive 67/548/EEC Annex V, C.4.A. Remarks: Based on data from similar materials

Bioaccumulative potential

Components:

1,1-Difluoroethane:

Partition coefficient: n-

octanol/water

log Pow: 0.75

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty

(including propellant)

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : 2.2 (8)

IATA-DGR

UN/ID No. : UN 1950

Proper shipping name : Aerosols, non-flammable, containing substances in Class 8,

Packing Group III

Class : 2.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : Non-flammable, non-toxic Gas, Corrosive

Packing instruction (cargo

aircraft)

Packing instruction (passen: 203



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ger aircraft)

IMDG-Code

UN number : UN 1950
Proper shipping name : AEROSOLS

Class : 2.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : 2.2 (8) EmS Code : F-D, S-U Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 1950 Proper shipping name : Aerosols

Class : 2.2 Subsidiary risk : 8

Packing group : Not assigned by regulation

Labels : NON-FLAMMABLE GAS, CORROSIVE

ERG Code : 126 Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Gases under pressure

Simple Asphyxiant Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Volatile organic compounds

(VOC) content

40 CFR Part 59 National VOC Emission Standard For Con-

sumer Products, Subpart C



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VOC content: 3.6 % / 31 g/l

US State Regulations

Pennsylvania Right To Know

Triacetoxyethylsilane 17689-77-9 1,1-Difluoroethane 75-37-6 Methylsilanetriyl triacetate 4253-34-3

International Regulations

Montreal Protocol : 1,1-Difluoroethane

The ingredients of this product are reported in the following inventories:

TSCA : All chemical substances in this product are either listed on the

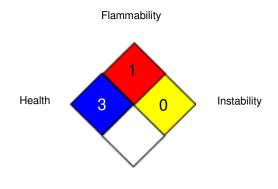
TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek



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NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States): UN - United Nations: UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety

Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Revision Date : 10/27/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.



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US / Z8



GHS SAFETY DATA SHEET

WELD-ON® 711™ Low VOC PVC Plastic Pipe Cements

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WELD-ON® 711™ Low VOC PVC Plastic Pipe Cements

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: **IPS** Corporation

17109 South Main Street, Gardena, CA 90248-3127

P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800.255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health		Enviro	nmental	Physical		
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known			
Skin Sensitization:	NO					
Eye:	Category 2					

GHS LABEL:



Signal Word: Danger

WHMIS CLASSIFICATION: CLASS B. DIVISION 2 CLASS D. DIVISION 1B

Date Revised: MAR 2019

Supersedes: JUN 2018

Hazard Statements Precautionary Statements H225: Highly flammable liquid and vapo P210: Keep away from heat/sparks/open flames/hot surfaces H319: Causes serious eye irritation P261: Avoid breathing dust/fume/gas/mist/vapors/spray H332: Harmful if inhaled P280: Wear protective gloves/protective clothing/eye protection/face protection H335: May cause respiratory irritation P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing H336: May cause drowsiness or dizziness P403+P233: Store in a well ventilated place. Keep container tightly closed H351: Suspected of causing cancer P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

OAO	LINEOU	HEAGH	CONCENTIATION
		Registration Number	% by Weight
109-99-9	203-726-8	01-2119444314-46-0000	40 - 50
78-93-3	201-159-0	01-2119457290-43-0000	5 - 15
108-94-1	203-631-1	01-2119453616-35-0000	9 - 18
67-64-1	200-662-2	01-2119471330-49-0000	3 - 11
	109-99-9 78-93-3 108-94-1	109-99-9 203-726-8 78-93-3 201-159-0 108-94-1 203-631-1	Registration Number

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Skin contact: Inhalation: Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

Inhalation, Eye and Skin Contact Likely Routes of Exposure:

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Eye Contact: Skin Contact:

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

Category 2 Carcinogen Chronic (long-term) effects:

Chronic (long-term) effects (MEK): Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. 0-Minimal Unsuitable Extinguishing Media: Water spray or stream Health 2 2 1-Slight Exposure Hazards: Inhalation and dermal contact 2-Moderate Flammability Combustion Products: Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious PPE В 4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Keep away from heat, sparks and open flame. ersonal precautions

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Prevent contact with skin or eyes (see section 8).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. **Environmental Precautions:**

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel

Materials not to be used for clean up: Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.

Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.

Do not eat, drink or smoke while handling.

Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight.

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, strong oxidizers and isocyanates. Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH 8-hr TLV	ACGIH 15-min STEL	OSHA 8-hr PEL	OSHA 15 min STEL	OSHA PEL-Ceiling	8-hr PEL	CAL/OSHA Ceiling	CAL/OSHA 15-min STEL
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
	Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

Engineering Controls: Use local exhaust as needed.

Maintain breathing zone airborne concentrations below exposure limits

Personal Protective Equipment (PPE):

Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,

etc. as may be appropriate for the exposure.

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.

Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application

practices and procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

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GHS SAFETY DATA SHEET

WELD-ON® 711™ Low VOC PVC Plastic Pipe Cements

Boiling Range

Flammability:

Evaporation Rate:

Vapor Pressure:

EXCEPTION for Ground Shipping

TDG INFORMATION

Flammability Limits:

Date Revised: MAR 2019

Supersedes: JUN 2018

0.88 ppm (Cyclohexanone)

>2.0 (Air = 1)

Heavy bodied

56°C (133°F) to 156°C (313°F) > 1.0 (BUAC = 1)

Category 2 LEL: 1.1% based on Cyclohexanone

UEL: 12.8% based on Acetone 190 mm Hg @ 20°C (68°F) Acetone

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grav, heavy syrupy liquid Ketone

Odor Threshold: Not Applicable pH:

Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF

Boiling Point: 56°C (133°F) Based on first boiling component: Acetone Flash Point: -20°C (-4°F) TCC based on Acetone

Specific Gravity: 0.966 @23°C (73°F)

Solubility: S
Partition Coefficient n-octanol/water: Solvent portion soluble in water. Resin portion separates out.

Pr: Not Available

Auto-ignition Temperature: 321°C (610°F) based on THF

Vapor Density: Other Data: Viscosity: Decomposition Temperature: Not Applicable

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke. Hazardous decomposition products:

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Target Organs Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) Methyl Ethyl Ketone (MEK) STOT SE3 Not Established Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Cyclohexanone Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m3 (rat) STOT SE3

Reproductive Effects Teratogenicity Mutagenicity Embryotoxicity Sensitization to Product Synergistic Products Not Established Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility in Soil: If released into the environment, this product can move rapidly through the soil.

Degradability: Not readily biodegradable

Bioaccumulation: Minimal to none SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name:

Hazard Class:

Secondary Risk: Identification Number: None

DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package.

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" UN 1133

Packing Group: PG II

Class 3 Flammable Liquid Label Required:

Marine Pollutant: TDG CLASS: FLAMMABLE LIQUID 3 SHIPPING NAME: ADHESIVES

UN NUMBER/PACKING GROUP UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 Symbols: F, Xi

Symbols: Risk Phrases R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking

R20-Harmful by inhalation. R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S9: Keep container in a well-ventilated place S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges.

S25: Avoid contact with eves. S46: If swallowed, seek medical advise immediately and show this container or label

Compliance Statement: This SDS was prepared to be in accordance with

US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012)

European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures

SECTION 16 - OTHER INFORMATION

Specification Information

Department issuing data sheet: IPS, Safety Health & Environmental Affairs All ingredients are compliant with the requirements of the European

E-mail address: <EHSinfo@ipscorp.com> Directive on RoHS (Restriction of Hazardous Substances)

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 3/4/2019 / Updated GHS Standard Format Solvent Cement for PVC Plastic Pipe Intended Use of Product:

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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