

# 1.) Identification of the Mixture and of the Company

Product identifier: Crown Off-Line Citrus Cleaner - Bulk

Product name:

8260 Off-Line Citrus Cleaner

Relevant identified uses of the substance: Use on bearings, pulleys, chains, cable connections, brakes, power and air tools, fork lifts, terminals, switches, and other grimy surfaces.

Uses advised against: Poorly ventilated areas

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)

Manufacturer/Supplier: Aervoe Industries Incorporated

Street address/P.O. Box: 1100 Mark Circle

Country ID/Postcode/Place Gardnerville, Nevada 89410

Telephone number: 1-775-782-0100

e-mail: mailbox@aervoe.com

National contact: Aervoe Industries Incorporated

For Product Information: 1-800-227-0196

Emergency telephone number: 1-800-424-9300 (CHEMTREC – 24 hrs)

# 2. Hazards identification

### Classifications

Physical Hazards: Flammable Liquid – 3

Health Hazards: Asp. Tox. 1

Skin Irrit. 2 Skin Sens. 1

Environmental Hazards: Aquatic Chronic 1

Aquatic Acute 1 Aquatic Tox. 2

Labeling

Signal Word: Danger

Hazard Statements: H226 – Flammable liquid and vapour.

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects. H411 – Toxic to aquatic life with long lasting effects.

Precautionary Statements: P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat/sparks/open flames/hot surfaces - no smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

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

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P303+P361+P353 - If on skin or hair, remove/takeoff immediately all contaminated clothing. Rinse skin with water/shower.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding  $50^{\circ}\text{C}/122^{\circ}\text{F}$ 

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

# 3. Composition / Information on Ingredients

# Composition

Chemical	Synonyms	CAS	EINECS	Weight	Hazard Category	H-Code
		Number	Number	Percent		
Naphtha		64741-65-7	265-067-2	40-70%	Flam Liq. 3	H226
(petroleum),					Asp. Tox 1	H304
heavy					Aquatic Tox. 2	H316
alkylate					Skin Irr. 2	H411
Aliphatic	Solvent	64742-96-7	265-200-4	10-30%	Asp. Tox. 1	H304
Petroleum	Naphtha				_	
Distillates						
D-Limonene	p-Menth-1,8-	5989-27-5	227-813-5	10-30%	Flam. Liq. 3	H226
	diene				Skin Irrit. 2	H315
					Skin Sens. 1	H317
					Aquatic Acute 1	H400
					Aquatic Chronic 1	H410

# **Other Product Information**

Chemical Identity: Mixture

# 4.) First Aid Measures

**General Advice:** If symptoms persist, always call a doctor.

**Inhalation First Aid:** Remove victim to fresh air and provide oxygen if breathing is

difficult. If not breathing, give artificial respiration, preferably

mouth to mouth. Get medical attention immediately.

**Skin Contact First Aid:** Wash with soap and water. Remove contaminated clothing and

shoes. Get medical attention immediately. Wash clothing before

reuse.

**Eye Contact First Aid:** If contact with eyes, immediately flush eyes with plenty of water

for at least 15 minutes, while holding eyelids open. Get medical

attention immediately.

**Ingestion First Aid:** If swallowed, wash out mouth with water provided the person is

conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Most Important** 

**Symptoms/Effects:** Exposure may cause slight irritation to the skin, eyes, and respiratory tract.

Excessive exposure may cause central nervous system effects.

# 5. Fire Fighting Measures

Flammable Properties: Flammable liquid Auto Ignition Temperature: Not Available

Suitable extinguishing media: Carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media: None known

Special hazards arising from the

substance or mixture: None known

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Fire & Explosion Hazards: Closed Containers may rupture due to the buildup of pressure

from extreme temperatures.

Precautions for fire-fighters: Use water spray to cool containers exposed to heat or fire to prevent

pressure build up. In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

### PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

### **SPILL CLEAN-UP PROCEDURES:**

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

# 7. Handling and Storage

# Handling:

Flammable liquid, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

# Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120°F (0° to 49°C).

No known incompatibilities.

# 8. Exposure Controls / Personal Protection

# **Appropriate engineering controls:**

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

### **Personal Protection:**

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

### Skin protection

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

# **Respiratory protection:**

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS	ACGIH	ACGIH	OSHA PEL	OSHA PEL
	Number	TLV (TWA)	TLV (STEL)	(TWA)	(STEL)
Naphtha (petroleum), heavy		N/A	N/A	N/A	N/A
alkylate	64741-65-7				
Aliphatic Petroleum Distillates	64742-96-7	N/A	N/A	N/A	N/A
D-Limonene	5989-27-5	N/A	N/A	N/A	N/A

# \*Values are based on the 2019 Guide to Occupational Exposure Values by ACGIH

# 9. Information on Basic Physical and Chemical Properties

Appearance: Pale yellow liquid	Odor: Citrus
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: 127° F (53° C)	Evaporation Rate: Slower than ether

Flammability: Flammable liquid	Upper LEL: 0.7%Lower LEL: 6.1%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV
Explosive Properties: N/AV	Oxidizing Properties: N/AV

# 10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

# 11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: N/AV

Eye irritation data: N/AV

Skin irritation/sensitization/absorption data: N/AV

Reproductive toxicity data: N/AV

Mutagenicity data: N/AV

Symptoms associated with physical contact: N/AV

Acute/chronic effects from short/long

term exposure: Irritating to skin. Prolonged/repeated contact may

cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the

following agencies:

NTP: N/AV IARC: IARC-3 OSHA: N/AV

\* Petroleum distillates may contain chemical carcinogens in limited quantities (< 0.01%). These quantities are determined by the supplier/fraction/purity of the distillate during the manufacturing process. Chemicals that may be present within distillates are listed on California's prop 65 list such as ETHYLBENZENE, BENZENE, and TOLUENE.

# 12. Ecological Information

Ecotoxicity: No Data Available

Persistence and degradability: **No Data Available** Bioaccumulative potential: **No Data Available** 

Mobility in soil: No Data Available

Results of PBT and vPvB assessment: No Data Available

Other adverse effects: No Data Available

# 13. Disposal Considerations

**Waste Disposal:** Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

**Product / Packaging disposal:** Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

# 14. Transportation Information

### US DOT

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1993	FLAMMABLE LIQUID,	3	PGII	Not	Reference 49
	N.O.S. (LIGHT			Applicable	CFR 172.101
	ALIPHATIC				
	PETROLEUM NAPTHA,				
	ALIPHATIC				
	HYDROCARBONS)				

### **IMDG**

UN	Proper Shipping Name	Hazard Class	Packing	Marine	Special
Number			Group	Pollutant	Provisions
UN1993	FLAMMABLE LIQUID,	3	PGII	Not	Reference
	N.O.S. (LIGHT			Applicable	IMDG code
	ALIPHATIC				part 3
	PETROLEUM NAPTHA,				
	ALIPHATIC				
	HYDROCARBONS)				

### IATA:

11111					
UN	Proper Shipping Name	Hazard Class	Packing	Marine	Special
Number			Group	Pollutant	Provisions
UN1993	FLAMMABLE LIQUID,	3	PGII	Not	Reference
	N.O.S. (LIGHT			Applicable	IATA

ALIPHATIC			Dangerous
PETROLEUM NAI	тна,		Goods
ALIPHATIC			Regulation
HYDROCARBONS	5)		

# 15. Regulatory Information

# **Workplace classification:**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

### **SARA Title 3:**

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

**TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR.

# 16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 2/5/20

Supersedes: (10/18/18)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.



# 1.) Identification of the Mixture and of the Company

Product identifier: Aervoe Construction Marking Paint - Aerosol

Product name: Construction Marking Paint

Fluorescent Colors	Non-Fluorescent Colors	16 oz. I.A.C.
246 Red	251 Black	261 Red
247 Orange	252 Yellow	262 Yellow
248 Green	254 Blue	263 Blue
249 Pink	255 White	266 Black
250 Blue	256 Red	267 White
253 Yellow	257 Orange	272 Fluorescent Orange
283 Red-Orange	258 Hi Vis Yellow	274 Fluorescent Green
	259 Green	275 Florescent Red-Orange
	260 Purple	276 Fluorescent Yellow
		279 Fluorescent Pink

Relevant identified uses of the substance: Designed to adhere to most surfaces, including pavement, gravel, and soil.

Uses advised against: Do not apply if surface is wet, or if rain is imminent within 4 hours of application.

CAS No: Not Applicable (mixture)
EC No: Not Applicable (mixture)
Index No: Not Applicable (mixture)

Manufacturer/Supplier: Aervoe Industries Incorporated

Street address/P.O. Box: 1100 Mark Circle

Country ID/Postcode/Place Gardnerville, Nevada 89410

Telephone number: 1-775-782-0100

e-mail: mailbox@aervoe.com

National contact: Aervoe Industries Incorporated

For Product Information: 1-800-227-0196

Emergency telephone number: 1-800-424-9300 (CHEMTREC – 24 hrs)

# 2. Hazards identification

# Classifications

Physical Hazards: Aerosol - Category 1

Flam. Gas. 1 Liquefied Gas Flam. Liq. 2

Health Hazards: Car 1B

Muta 1B Asp Tox. 1 Eye Irrit. - 2 Rep. 2 Skin. Irr. 2 STOT SE3

Environmental Hazards: Aquatic Chronic 2

Labeling

Signal Word: Danger

Hazard Statements: H220 – Extremely flammable gas

H222 – Extremely flammable aerosol

H225 – Highly flammable liquid and vapour. H229 - Pressurized container: may burst if heated

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H340 – May cause genetic defects

H350 – May cause cancer

H361 – Suspected of damaging fertility or the unborn child.

H373 – May cause damage to nervous system through prolonged or

repeated exposure(Inhalation)

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements: P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P210 - Keep away from heat/sparks/open flames/hot surfaces - no

smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

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

P264 - Wash ... thoroughly after handling

P280 - Wear protective gloves/eye protection/face protection

P303+P361+P353 - If on skin or hair, remove/takeoff immediately all

contaminated clothing. Rinse skin with water/shower.

P410+P412 - Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation



Symbols/Pictograms:

# 3. Composition / Information on Ingredients



# Safety Data Sheet (SDS)

Date Prepared/Revised: 1/4/22 Version no.: 07 Supersedes: (6/3/21)

Chemical	Synonyms	CAS Number	EINECS Number	Weight Percent	Hazard Category	H-Code
Hydrocarbon	LPG	68476-86-8	270-705-8	10-30%	Liquefied Gas	H220
Propellant					Flam. Gas 1	H229
Hexane	n-Hexane	110-54-3	203-777-6	5-10%	Flam. Liq. 2	H225
					Repr. 2	H361f ***
					Asp. Tox. 1	H304
					STOT RE 2 *	H373 **
					Skin Irrit. 2	H315
					STOT SE 3	H336
					Aquatic Chronic 2	H411
Aliphatic	Solvent	64742-89-8	265-192-2	5-10%	Flam Liq. 2	H224
Petroleum	Naphtha				Skin Irr. 2	H304
Distillates					Asp. Tox. 1	H315
					STOT SE 3	H336
					Aquatic Tox. 2	H411
Aliphatic	Solvent	64742-88-7	265-191-7	1-5%	Asp. Tox. 1	H304
Petroleum	Naphtha					
Distillates						
Aliphatic	Solvent	8032-32-4	232-453-7	1-5%	Carc. 1B	H350
Petroleum	Naphtha				Muta. 1B	H340
Distillates					Asp. Tox. 1	H304
Non-fluorescent						
colors also						
contain:	-	CT C	200 662 2	1.50	71. 71. 0	*****
Acetone	Propanone	67-64-1	200-662-2	1-5%	Flam. Liq. 2 Eye Irrit. 2	H225, H319,
					STOT SE 3	H319, H336
#262 Also					5101 511 3	11330
Contains						
Ethanol	Ethyl	64-17-5	200-578-6	1-5%	Flam. Liq. 2	H225
	Alcohol					

### **Other Product Information**

Chemical Identity: Mixture

### 4.) First Aid Measures

**General Advice:** If symptoms persist, always call a doctor.

**Inhalation First Aid:** Remove victim to fresh air and provide oxygen if breathing is

difficult. If not breathing, give artificial respiration, preferably

mouth to mouth. Get medical attention immediately.

Skin Contact First Aid: Wash with soap and water. Remove contaminated clothing and

shoes. Get medical attention immediately. Wash clothing before

reuse.

Eye Contact First Aid: If contact with eyes, immediately flush eyes with plenty of water

for at least 15 minutes, while holding eyelids open. Get medical

attention immediately.



**Ingestion First Aid:** If swallowed, wash out mouth with water provided the person is

conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Most Important** 

**Symptoms/Effects:** Exposure may cause slight irritation to the skin, eyes, and respiratory tract.

Excessive exposure may cause central nervous system effects.

# **5. Fire Fighting Measures**

Flammable Properties: Aerosol Auto Ignition Temperature: Not Available

Suitable extinguishing media: Carbon dioxide, dry chemical, water spray.

Unsuitable extinguishing media: None known

Special hazards arising from the

substance or mixture: None known

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Fire & Explosion Hazards: Closed Containers may rupture due to the buildup of pressure

from extreme temperatures.

Precautions for fire-fighters: Use water spray to cool containers exposed to heat or fire to prevent

pressure build up. In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece

operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

### PERSONAL PRECAUTIONARY MEASURES:

- 1) Follow personal protective equipment recommendations found in section 8.
- 2) Maintain adequate ventilation.

### **SPILL CLEAN-UP PROCEDURES:**

- 1.) Evacuate unprotected personnel from the area.
- 2.) Remove sources of ignition if safe to do so.
- 3.) Pickup spilled materials using non-sparking tools and place in an appropriate container for disposal.
- 4.) Contain spill to prevent material from entering sewage or ground water systems.
- 5.) Always dispose of waste materials in accordance with all EU, National and Local Regulations.

# 7. Handling and Storage

### **Handling**:

Flammable Aerosol, use in a well ventilated area.

Do not use near sources of ignition.

Do not to eat, drink and smoke while working with this material.

Wash hands after use.

# Conditions for safe storage, including any incompatibilities:

Store out of direct sunlight.

Storage Temperature: 32° to 120°F (0° to 49°C).

No known incompatibilities.

# 8. Exposure Controls / Personal Protection

# **Appropriate engineering controls:**

Ensure adequate ventilation. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

# **Personal Protection:**

Eye & face protection devices such as safety glasses, safety goggles or face shield are recommended.

# **Skin protection**

Wear the appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

# **Respiratory protection:**

Use only in an adequately ventilated area. For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA).

Hazardous Ingredient	CAS	ACGIH TLV	ACGIH TLV	OSHA	OSHA PEL
	Number	(TWA)	(STEL)	PEL	(STEL)
				(TWA)	
Aliphatic Petroleum Distillates	64742-88-7	N/A	N/A	N/A	N/A
Aliphatic Petroleum Distillates	64742-89-8	N/A	N/A	N/A	N/A
Hydrocarbon Propellant	68476-86-8	N/A	N/A	N/A	N/A
Aliphatic Petroleum Distillates	8032-32-4	N/A	N/A	N/A	N/A
Hexane	110-54-3	50PPM	N/A	500PPM	N/A
Acetone	67-64-1	250PPM	500PPM	1000PPM	N/A
Ethanol	64-17-5	N/A	1000PPM	1000PPM	N/A

<sup>\*</sup>Values are based on the 2019 Guide to Occupational Exposure Values by ACGIH

# 9. Information on Basic Physical and Chemical Properties

Appearance: Color varies by product.	Odor: Hydrocarbon Odor
Odor Threshold: N/AV	pH: Not Applicable (solvent Base)
Melting Point: N/AV	Freezing Point: N/AV
Initial Boiling Point: N/AV	Boiling Point Range: N/AV
Flash Point: <0° F (-18° C)	Evaporation Rate: Faster than n-Butyl
	Acetate
Flammability Solid/Gas: Flammable gas	LEL: 0.9% UEL: 13%
Vapor Pressure: N/AV	Vapor Density: Heavier Than Air
Relative Density: N/AV	Solubility: Negligible
Partition Coefficient:	Auto-ignition Temperature: N/AV
n-octanol/ water: N/AV	
Decomposition Temperature: N/AV	Viscosity: N/AV

Explosive Properties: N/AV Oxidizing Properties: N/AV

# 10. Stability & Reactivity

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions

Chemical stability: Stable under normal conditions Conditions to avoid: Heat and ignition sources Incompatible materials: Strong Oxidizing Agents Hazardous decomposition products: Will not occur

# 11. Toxicological Information

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart and blood

Routes of exposure: Eyes, skin, ingestion, and/or inhalation

Acute toxicological data: (Acetone) Acute oral LD50: 5800mg/kg(rat)

(Acetone) LC50: 21000 ppm / 8 hr (rat) (Hexane) LD50: 2870 mg/kg (Rat-Oral)

Eye irritation data: Eye Irrit 2

Skin irritation/sensitization/absorption data: Skin Irrit 2

Reproductive toxicity data: Reproductive 2

Mutagenicity data: Muta 1B

Symptoms associated with physical contact: N/AV

Acute/chronic effects from short/long

term exposure: Irritating to skin. Prolonged/repeated contact may

cause defatting of the skin which can lead to dermatitis. Not expected to be a skin sensitizer.

Known reportable carcinogens via the

following agencies:

NTP: N/AV

IARC: IARC3:Classification not possible from current data

OSHA: TLV-A4

# 12. Ecological Information

Ecotoxicity: No Data Available

Persistence and degradability: No Data Available



Bioaccumulative potential: No Data Available

Mobility in soil: No Data Available

Results of PBT and vPvB assessment: No Data Available

Other adverse effects: No Data Available

# 13. Disposal Considerations

**Waste Disposal:** Dispose of material in accordance with EU, national and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

**Product / Packaging disposal:** Dispose of packaging in accordance with federal, state and local requirements, regulations and/or laws governing your location.

# 14. Transportation Information

### **US DOT**

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference 49
			Applicable	Applicable	CFR 172.101

### **IMDG**

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols	2.1	Not	Not	Reference
			Applicable	Applicable	IMDG code
					part 3

# IATA:

UN	Proper Shipping Name	Hazard	Packing	Marine	Special
Number		Class	Group	Pollutant	Provisions
UN1950	Aerosols, Flammable	2.1	Not	Not	Reference
			Applicable	Applicable	IATA
					Dangerous
					Goods
					Regulation

# 15. Regulatory Information

### **Workplace classification:**

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

### **SARA Title 3:**

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

**TSCA status:** All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR. **PROP 65 (CA):** WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

# 16. Other Information

This SDS has been completed in accordance with GHS Rev04 (2011): U.S OSHA, CMA, ANSI, Canadian WHMIS standards, and European Directives.

Date of Preparation/Revision: 1/4/22

Supersedes: (6/3/21)

To the best of our knowledge, the information contained herein is believed to be accurate. However, the above data does not imply any guarantee or warranty of any kind, expressed or implied. The final determination of the suitability of any material is the sole responsibility of the user. All materials made present un-known hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards existing.

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** Contact Cleaner 2000® VC Precision Cleaner

Other means of identification

**Product Code** No. 02240 (Item# 1003249) Recommended use Precision electronics cleaner

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name

885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International) Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Liquefied gas Gases under pressure **Health hazards** Acute toxicity, oral Category 4 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

**Environmental hazards** Not classified. **OSHA** defined hazards Simple asphyxiant

Label elements



Signal word Danger

**Hazard statement** Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin

irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

**Precautionary statement** Prevention

Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. Keep container tightly closed. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves. Wear respiratory protection.

Material name: Contact Cleaner 2000® VC Precision Cleaner

No. 02240 (Item# 1003249) Version #: 02 Revision date: 09-25-2017 Issue date: 06-17-2014

**Response** If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If

on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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. If eye irritation persists: Get medical advice/attention.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to high

temperature may cause can to burst.

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

Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phospene.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
1,1,1,2-tetrafluoroethane	HFC-134a	811-97-2	40 - 50
trans-1,2-dichloroethylene		156-60-5	20 - 30
decafluoropentane	HFC 43-10mee	138495-42-8	5 - 10

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Remove from further exposure. For those providing assistance, avoid exposure to yourself or

others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Do NOT give

epinephrine (adrenaline).

Skin contact Remove contaminated clothing. Rinse skin with water/shower. 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 if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

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

Most important

symptoms/effects, acute and

delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Severe eye irritation. 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.

Indication of immediate medical attention and special

treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Because of possible disturbances of cardiac rhythm, catecholamine drugs such as adrenaline should be used with special caution and only in situations of emergency life support.

should be used with special caution and only in situations of emergency life support.

In the case of accident or if you feel unwell, seek medical advice immediately (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.

### 5. Fire-fighting measures

Suitable extinguishing media \

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

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

Material name: Contact Cleaner 2000® VC Precision Cleaner

No. 02240 (Item# 1003249) Version #: 02 Revision date: 09-25-2017 Issue date: 06-17-2014

Specific hazards arising from the chemical

Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene.

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 General fire hazards

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO2 = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label.

### Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Туре	Value	
trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Type	Value	
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	

Material name: Contact Cleaner 2000® VC Precision Cleaner

**US. NIOSH: Pocket Guide to Chemical Hazards** 

trans-1,2-dichloroethylene TWA 790 mg/m3

Type

(CAS 156-60-5)

Components

200 ppm

Value

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value

1,1,1,2-tetrafluoroethane TWA 4240 mg/m3

(CAS 811-97-2)

1000 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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. Provide

eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Neoprene. Polyvinyl alcohol (PVA). Viton/butyl.

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

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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** 

Physical state Liquid.
Form Aerosol.
Color Colorless.
Odor Slight ethereal.
Odor threshold Not available.

Melting point/freezing point -119.2 °F (-84 °C) estimated Initial boiling point and boiling 104.2 °F (40.1 °C) estimated

range

Flash point None.

Evaporation rate Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

2 % estimated

Not available.

(%)

Flammability limit - upper

19.9 % estimated

(%)

Vapor pressure 3470.7 hPa estimated

Vapor density > 1 (air = 1)

Relative density 1.25 estimated

Solubility (water) Slight.

Partition coefficient (n-octanol/water)

Not available.

**Auto-ignition temperature** 

860 °F (460 °C) estimated

**Decomposition temperature** Not available. Viscosity (kinematic) Not available. 100 % estimated Percent volatile

# 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.

Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or Conditions to avoid

hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

fluoride, hydrogen chloride and possibly phosgene.

Strong acids. Strong bases. Alkaline metals. Alkaline earth metals. Powdered metal. Strong Incompatible materials

oxidizing agents.

Hazardous decomposition

products

Hydrogen chloride. Hydrogen fluoride. Carbonyl fluoride. Carbon oxides. Phosgene.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen

below safe breathing levels. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Prolonged inhalation may be harmful.

Causes skin irritation. Prolonged skin contact may cause temporary irritation. Skin contact

Eye contact Causes serious eye irritation.

Ingestion 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 Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Fatique. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. May be fatal if swallowed and enters airways.

Components **Species Test Results** 

decafluoropentane (CAS 138495-42-8)

Acute **Dermal** 

Rabbit LD50 > 5000 mg/kg

Inhalation

LC50 Rat 11058 mg/kg, 4 hours calculated

Oral

LD50 Rat > 5000 mg/kg

trans-1,2-dichloroethylene (CAS 156-60-5)

Acute

Oral

LD50 Rat 1235 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 eye irritation.

Material name: Contact Cleaner 2000® VC Precision Cleaner

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**Respiratory sensitization** Not a respiratory sensitizer.

**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.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting,

may cause chemical pneumonia, pulmonary injury or death.

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
495-42-8)		
EC50	Water flea (Daphnia magna)	11.7 mg/l, 48 hours
LC50	Zebra danio (Danio rerio)	13 mg/l, 96 hours
AS 156-60-5)		
LC50	Bluegill (Lepomis macrochirus)	120 - 160 mg/l, 96 hours
EC50	Water flea (Daphnia magna)	220 mg/l, 48 hours
	EC50 LC50 AS 156-60-5) LC50	EC50 Water flea (Daphnia magna) LC50 Zebra danio (Danio rerio) AS 156-60-5)  LC50 Bluegill (Lepomis macrochirus)

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### Persistence and degradability

# Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1,1,1,2-tetrafluoroethane 1.274

decafluoropentane 2.7, Pow at 20 °C

trans-1,2-dichloroethylene 2.06

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 of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in

accordance with all applicable regulations.

Hazardous waste code Not regulated.

Contaminated packaging Si

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT

UN number UN1950

**UN proper shipping name** Aerosols, non-flammable, Limited Quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk -Label(s) 2.2

Packing group Not applicable.

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

Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

**IATA** 

UN number UN1950

UN proper shipping name Aerosols, non-flammable, Limited Quantity

Transport hazard class(es)

Class 2.2 Subsidiary risk -

Packing group Not applicable.

ERG Code 2L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

EmS Not available.

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

# 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

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)

decafluoropentane (CAS 138495-42-8)

1.0 % One-Time Export Notification only.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

trans-1,2-dichloroethylene (CAS 156-60-5) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

trans-1,2-dichloroethylene (CAS 156-60-5) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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)

Food and Drug
Administration (FDA)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Section 311/312 Immediate Hazard - Yes Hazard categories Delayed Hazard - No

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

SARA 302 Extremely hazardous substance

US state regulations

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

trans-1,2-dichloroethylene (CAS 156-60-5)

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

trans-1,2-dichloroethylene (CAS 156-60-5)

### **US. Massachusetts RTK - Substance List**

trans-1,2-dichloroethylene (CAS 156-60-5)

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

trans-1,2-dichloroethylene (CAS 156-60-5)

### **US. Rhode Island RTK**

trans-1,2-dichloroethylene (CAS 156-60-5)

### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

methanol (CAS 67-56-1) Listed: March 16, 2012

### Volatile organic compounds (VOC) regulations

**EPA** 

**VOC content (40 CFR** 30.9 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products This product is regulated as an Electronic Cleaner. This product is compliant for use in all 50

states.

 VOC content (CA)
 51 %

 VOC content (OTC)
 30.9 %

# **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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region Inventory name On inventory (yes/no)\*

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

\*A "Yes" indicates that all components of this product comply 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

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

Issue date06-17-2014Revision date09-25-2017Prepared byAllison Yoon

Version # 02

Further information CRC # 657B/1002685

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Special hazards: SA

NFPA ratings

country(s).



**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision Information** This document has undergone significant changes and should be reviewed in its entirety.

No. 02240 (Item# 1003249) Version #: 02 Revision date: 09-25-2017 Issue date: 06-17-2014

# CR®

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier Electrical Silicone Lubricant

Other means of identification

Product Code No. 02094 (Item# 1003201)

Recommended use Electrical silicone lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC)

Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1

Gases under pressure Liquefied gas
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2B

Reproductive toxicity (fertility)

Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1
Hazardous to the aquatic environment, acute Category 2

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause

drowsiness or dizziness. Suspected of damaging fertility. Toxic to aquatic life. Toxic to aquatic life

with long lasting effects.

Material name: Electrical Silicone Lubricant

### **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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Collect spillage.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
naphtha (petroleum), hydrotreated light		64742-49-0	40 - 50
2-methylpentane		107-83-5	20 - 30
liquefied petroleum gas		68476-86-8	20 - 30
n-hexane		110-54-3	1 - 3

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

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

Eye contact

medical advice/attention. Wash contaminated clothing before reuse.

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

Ingestion

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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

Most important symptoms/effects, acute and delayed

nd

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

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. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

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No. 02094 (Item# 1003201) Version #: 04 Revision date: 08-17-2018 Issue date: 05-07-2014

# Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

### 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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре `	Value	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3	
		100 ppm	
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm	
	TWA	500 ppm	
n-hexane (CAS 110-54-3)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Туре	Value	
2-methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	400 mg/m3	
- · · · - · · · · · · · · · · · · · · ·		100 ppm	
n-hexane (CAS 110-54-3)	TWA	180 mg/m3	
,		50 ppm	

### **Biological limit values**

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
n-hexane (CAS 110-54-3)	0.5 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

US - California OELs: Skin designation

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton/butyl.

Other Wear appropriate chemical resistant clothing.

Material name: Electrical Silicone Lubricant

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Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not 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 Aerosol.
Color Water-white.

Odor Mild solvent.

Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

118.4 °F (48 °C) estimated

Flash point  $< 0 \,^{\circ}F \,(< -17.8 \,^{\circ}C)$ 

**Evaporation rate** Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower 1 % estimated

(%)

Flammability limit - upper 8 % estimated

(%)

Vapor pressure 1577.3 hPa estimated

Vapor density > 1 (air = 1)

Relative density 0.81 estimated

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 437 °F (225 °C) estimated

Decomposition temperatureNot available.ViscosityNot available.Percent volatile97 % estimated

# 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 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Carbon oxides.

No. 02094 (Item# 1003201) Version #: 04 Revision date: 08-17-2018 Issue date: 05-07-2014

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation. Eye contact Causes eve irritation.

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

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing,

redness, and discomfort. Skin irritation. May cause redness and pain.

### Information on toxicological effects

May be fatal if swallowed and enters airways. **Acute toxicity** 

Components **Species Test Results** 

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

**Acute** 

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Inhalation

Rat LC50 61 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

n-hexane (CAS 110-54-3)

Acute

**Dermal** 

LD50 Rabbit > 1300 mg/kg

Oral

LD50 Rat 15840 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -Not classified.

repeated exposure

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

Material name: Electrical Silicone Lubricant

SDS US

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# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Product Species Test Results** 

**Electrical Silicone Lubricant** 

Aquatic

Acute

EC50 Crustacea Daphnia 1.1775 mg/l, 48 hours estimated Fish LC50 Fish 1.0176 mg/l, 96 hours estimated

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

3.74 2-methylpentane n-hexane 3.9

**Bioconcentration factor (BCF)** 

naphtha (petroleum), hydrotreated light 10 - 25000

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

### 13. Disposal considerations

**Disposal instructions** If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or

> dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance

with all applicable regulations.

D001: Waste Flammable material with a flash point <140 F Hazardous waste code

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 UN1950

**UN** proper shipping name

Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

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

N82 Special provisions Packaging exceptions 306 Packaging non bulk None Packaging bulk None

**IATA** 

**UN number** 

**UN proper shipping name** Aerosols, flammable, Limited Quantity

Transport hazard class(es)

2.1 Class Subsidiary risk

Not applicable. Packing group

**ERG Code** 

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Material name: Electrical Silicone Lubricant

### **IMDG**

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2 Subsidiary risk -

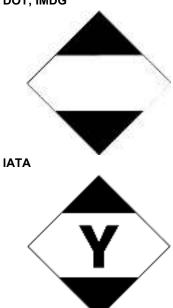
Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. EmS F-D, S-U

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

### DOT; IMDG



# 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)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

n-hexane (CAS 110-54-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

n-hexane (CAS 110-54-3) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

n-hexane (CAS 110-54-3) 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

### Other federal regulations

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

n-hexane (CAS 110-54-3)

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Food and Drug
Administration (FDA)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Classified hazard** 

Flammable (gases, aerosols, liquids, or solids)

categories Gas under pressure

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

### SARA 302 Extremely hazardous substance

Not listed.

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
n-hexane	110-54-3	1 - 3	

### **US state regulations**

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

2-methylpentane (CAS 107-83-5)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

### **US. Massachusetts RTK - Substance List**

2-methylpentane (CAS 107-83-5)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

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

2-methylpentane (CAS 107-83-5)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

### **US. Rhode Island RTK**

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

### **California Proposition 65**



**WARNING:** Reproductive Harm - www.P65Warnings.ca.gov

### California Proposition 65 - CRT: Listed date/Male reproductive toxin

n-hexane (CAS 110-54-3) Listed: December 15, 2017

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

liquefied petroleum gas (CAS 68476-86-8)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

### Volatile organic compounds (VOC) regulations

### **EPA**

VOC content (40 CFR 97 %

51.100(s))

Consumer products Not re

(40 CFR 59, Subpt. C)

Not regulated

State

Consumer products Not regulated

VOC content (CA) 97 % VOC content (OTC) 97 %

### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL)

Yes

Material name: Electrical Silicone Lubricant

On inventory (yes/no)\* Country(s) or region Inventory name Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Yes European Inventory of Existing Commercial Chemical Europe No

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

05-07-2014 Issue date **Revision date** 08-17-2018 Allison Yoon Prepared by

Version # 04

**Further information** CRC # 519A-D/1008116-1002521

The information contained in this document applies to this specific material as supplied. It may not **Disclaimer** 

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

Material name: Electrical Silicone Lubricant

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).

# CRC.

# SAFETY DATA SHEET

### 1. Identification

Product identifier HF™ Contact Cleaner

Other means of identification

Product code 03125

Recommended use Electronic cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

**Customer Service** 800-272-4620 **24-Hour Emergency** 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Avoid breathing mist or vapor. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid

breathing gas. Wash thoroughly after handling. Wear protective gloves.

**Response**If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing

and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for

breathing. Call a poison center/doctor if you feel unwell.

Storage Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Material name: HF™ Contact Cleaner 1758 Version #: 01 Issue date: 05-19-2014

### Disposal

Hazard(s) not otherwise classified (HNOC)

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

None known.

# 3. Composition/information on ingredients

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Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light		64742-47-8	90 - 100
Carbon dioxide		124-38-9	1 - 3

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 Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

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

Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

**General information** 

media

Powder. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.

General fire hazards Extremely flammable aerosol.

### 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. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: HF™ Contact Cleaner 1758 Version #: 01 Issue date: 05-19-2014

### 7. Handling and storage

#### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
,		5000 ppm	
US. ACGIH Threshold Limit Valu	ues		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	

# Biological limit values

.

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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** Not available.

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Neoprene.

Other Wear appropriate chemical resistant clothing.

**Respiratory protection** Air monitoring is needed to determine actual employee exposure levels.

**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 stateLiquid.FormAerosol.ColorClear.

Odor Mild hydrocarbon.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -72.4 °F (-58 °C) estimated Initial boiling point and boiling 430 °F (221.1 °C) estimated

range

Flash point 204 °F (95.6 °C) Tag Closed Cup

Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

0.6 % estimated

(%)

Flammability limit - upper

5.5 % estimated

(%)

Vapor pressure 1624.9 hPa estimated

Vapor density4.5 (air = 1)Relative density0.82 estimatedSolubility (water)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature 456.8 °F (236 °C) estimated

Decomposition temperature Not available.

Viscosity (kinematic) Not available.

Percent volatile 97.2 % estimated

#### 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 Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

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

Inhalation Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea,

vomiting.

**Skin contact** Causes skin irritation.

**Eye contact** Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and

pain.

#### Information on toxicological effects

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

Product	Species	Test Results
HF™ Contact Cleaner		
Acute		
Dermal		
LD50	Rabbit	2058.4412 mg/kg estimated
Inhalation		
LC50	Rat	5.3519 mg/l, 4 Hours estimated
Oral		
LD50	Rat	5146.103 mg/kg estimated

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

**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.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

**Species** 

**Species** 

Specific target organ toxicity -

repeated exposure

**Product** 

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.

HF™ Contact Cleaner			
Aquatic			
Acute			
Fish	LC50	Fish	2.2643 mg/l, 96 hours estimated

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Components

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 2.2 mg/l, 96 hours

Persistence and degradabilityNot available.Bioaccumulative potentialNot available.Mobility in soilNo 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.

**Test Results** 

**Test Results** 

#### 13. Disposal considerations

Disposal of waste from residues / unused products

The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### 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

UN1950 **UN number** 

**UN** proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

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

Special provisions N82 Packaging exceptions 306 None Packaging non bulk Packaging bulk None

**IATA** 

UN1950 **UN** number

**UN** proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 10L

Other information

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

Passenger and cargo

aircraft

Cargo aircraft only Allowed.

**IMDG** 

UN1950 **UN** number

**UN** proper shipping name AEROSOLS, LIMITED QUANTITY

Allowed.

Transport hazard class(es)

Class 2 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

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

# 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.

SARA 304 Emergency release notification

Not regulated.

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

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

**CERCLA Hazardous Substances: Reportable quantity** 

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### 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)

Food and Drug

Not regulated.

Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Section 311/312 Delayed Hazard - No **Hazard categories** Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

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

Carbon dioxide (CAS 124-38-9)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

#### **US. Massachusetts RTK - Substance List**

Carbon dioxide (CAS 124-38-9)

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

Carbon dioxide (CAS 124-38-9)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

#### **US. Rhode Island RTK**

None.

#### **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.

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR 97.2 %

51.100(s))

Not regulated **Consumer products** 

(40 CFR 59, Subpt. C)

**State** 

Consumer products This product is regulated as an Electronic Cleaner. This product is compliant for use in all 50

states.

VOC content (CA) 0 % 0 % VOC content (OTC)

#### **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

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

Yes

\*A "Yes" indicates that all components of this product comply 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** 05-19-2014 **Prepared by** Allison Cho

Version # 01

Further information CRC # 493A
HMIS® ratings Health: 2
Flammability: 3

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 3 Instability: 0

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries.

Material name: HF™ Contact Cleaner 1758 Version #: 01 Issue date: 05-19-2014

# SAFETY DATA SHEET

### 1. Identification

**Product identifier** Lectra Clean® Heavy Duty Electrical Parts Degreaser

Other means of identification

No. 02018 (Item# 1003177) **Product Code** Recommended use Energized electrical cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name 885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International) Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Gases under pressure Compressed gas **Health hazards** Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B Sensitization, skin Category 1B Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic

skin reaction. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. Toxic

Category 2

to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Response

Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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. If eye irritation persists: Get medical advice/attention. IF exposed or concerned:

Get medical advice/attention. Collect spillage.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to high

temperature may cause can to burst.

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

Hazard(s) not otherwise classified (HNOC)

None known.

#### Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
tetrachloroethylene	perchloroethylene	127-18-4	90 - 100
carbon dioxide		124-38-9	1 - 3
decafluoropentane	HFC 43-10mee	138495-42-8	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

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

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. If skin

irritation or rash 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.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Get Ingestion

medical attention if symptoms occur.

reaction. Dermatitis. Rash.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin

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

Water fog. Foam. Dry chemical powder. Dry chemical, CO2, or water spray.

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

General fire hazards Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 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. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Collect spillage. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 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. Pressurized container: Do not pierce or burn, even after use. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, see the product label.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Protect from sunlight. Store in a well-ventilated place. Store in cool place. Exposure to high temperature may cause can to burst. Store away from incompatible materials (see Section 10 of the SDS).

1/-1...

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Туре	Value
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3
		5000 ppm
US. OSHA Table Z-2 (29 CFR 1910.1000	0)	
Components	Туре	Value
tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm
,	TWA	100 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
,	TWA	5000 ppm

US. ACGIH Threshold Limit Valu Components	ies Type	Value	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	25 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
,		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*
	3 ppm	Tetrachloroethy lene	End-exhaled air	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

#### US - Minnesota Haz Subs: Skin designation applies

tetrachloroethylene (CAS 127-18-4)

Skin designation applies.

Appropriate engineering controls

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 should be available when handling this product. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Viton/butyl. Polyvinyl alcohol (PVA). Silver Shield®

Other Wear appropriate chemical resistant clothing.

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not 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. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Aerosol.
Color Colorless.
Odor Irritating.
Odor threshold 50 ppm
pH Not available.

Melting point/freezing point
-8.1 °F (-22.3 °C) estimated
Initial boiling point and boiling
250.3 °F (121.3 °C) estimated

range

Flash point None (Tag Closed Cup)

SDS US

Evaporation rate Very fast.

Flammability (solid, gas) Not available.

Hence/lever flammability or explosive limits

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper

Flammability limit - lower

(%)

Not applicable.

Not applicable.

Vapor pressure 1333.3 hPa estimated

Vapor density5.76 (air = 1)Relative density1.61 estimatedSolubility (water)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity (kinematic) Not available.

Percent volatile 97.7 % estimated

# 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** Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or

hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen

fluoride, hydrogen chloride, and possibly phosgene. Strong oxidizing agents. Strong acids. Strong bases.

Incompatible materials
Hazardous decomposition

products

Hydrogen fluoride. Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides.

Halogenated materials. Carbonyl halides.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea,

vomiting.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes eye irritation.

**Ingestion** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea,

and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash.

#### Information on toxicological effects

Acute toxicity None known.

Components Species Test Results

decafluoropentane (CAS 138495-42-8)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat 11058 mg/kg, 4 hours calculated

Oral

LD50 Rat > 5000 mg/kg

**Species** Components **Test Results** 

tetrachloroethylene (CAS 127-18-4)

**Acute** Dermal

LD50 Rabbit > 3228 mg/kg

Oral

LD50 Rat 2629 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes eve irritation.

irritation

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

### IARC Monographs. Overall Evaluation of Carcinogenicity

tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

#### US. National Toxicology Program (NTP) Report on Carcinogens

tetrachloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. **Chronic effects** 

#### 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
decafluoropentane (C.	AS 138495-42-8)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	11.7 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	13 mg/l, 96 hours
tetrachloroethylene (C	AS 127-18-4)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.73 - 5.27 mg/l, 96 hours

<sup>\*</sup> 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** 

Partition coefficient n-octanol / water (log Kow)

decafluoropentane 2.7. Pow at 20 °C

tetrachloroethylene 2.88

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.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 13. Disposal considerations

Disposal of waste from residues / unused products This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical

or used container. Dispose in accordance with all applicable regulations.

D039: Waste Tetrachloroethylene Hazardous waste code

F001: Waste Halogenated Solvent - Spent Halogenated Solvent Used in Degreasing

F002: Waste Halogenated Solvent - Spent Halogenated Solvent

**US RCRA Hazardous Waste U List: Reference** 

tetrachloroethylene (CAS 127-18-4)

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

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

disposal.

# 14. Transport information

DOT

**UN** number UN1950

**UN** proper shipping name

Aerosols, poison, Limited Quantity

Transport hazard class(es)

2.2 6.1(PGIII) Subsidiary risk Label(s) 2.2, 6.1 Packing group Not applicable.

**Special precautions for user** Forbidden from transportation by air.

Packaging non bulk None Packaging bulk None

**IATA** 

UN1950 **UN** number

**UN** proper shipping name Transport hazard class(es)

Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III

2.2 Class Subsidiary risk 6.1(PGIII) Packing group Not applicable.

**ERG Code** 

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number UN1950 **UN** proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class

Subsidiary risk 6.1(PGIII)

Packing group

Not applicable.

**Environmental hazards** 

No. Marine pollutant F-D, S-U **EmS** 

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

#### 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)

decafluoropentane (CAS 138495-42-8) 1.0 % One-Time Export Notification only.

SARA 304 Emergency release notification

Not regulated.

No. 02018 (Item# 1003177) Version #: 04 Revision date: 11-01-2017 Issue date: 07-23-2014

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

tetrachloroethylene (CAS 127-18-4)

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

tetrachloroethylene (CAS 127-18-4) Listed.

#### **CERCLA Hazardous Substances: Reportable quantity**

tetrachloroethylene (CAS 127-18-4)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

100 LBS

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

tetrachloroethylene (CAS 127-18-4)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Section 311/312 Immediate Hazard - Yes Delayed Hazard - Yes **Hazard categories** Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

**SARA 302 Extremely** 

hazardous substance

#### **US** state regulations

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

tetrachloroethylene (CAS 127-18-4)

carbon dioxide (CAS 124-38-9)

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

tetrachloroethylene (CAS 127-18-4) **US. Massachusetts RTK - Substance List** 

carbon dioxide (CAS 124-38-9) tetrachloroethylene (CAS 127-18-4)

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

carbon dioxide (CAS 124-38-9) tetrachloroethylene (CAS 127-18-4)

#### US. Rhode Island RTK

carbon dioxide (CAS 124-38-9) tetrachloroethylene (CAS 127-18-4)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

51.100(s))

**Consumer products** (40 CFR 59, Subpt. C) Not regulated

State

#### Consumer products

This product is regulated as an Energized Electrical Cleaner for the following states: California, Connecticut, Delaware, District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Virginia. It is for energized equipment use only. It is not to be used for motorized vehicle maintenance or their parts. This product is compliant for use in all 50 states.

0 % VOC content (CA) VOC content (OTC) 0 %

#### **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

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

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

07-23-2014 Issue date 11-01-2017 **Revision date** Prepared by Allison Yoon

Version # 04

CRC # 863A/1002837 **Further information** 

**HMIS®** ratings Health: 2\*

Flammability: 0 Physical hazard: 0 Personal protection: B

**NFPA** ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

This document has undergone significant changes and should be reviewed in its entirety. **Revision Information** 

Material name: Lectra Clean® Heavy Duty Electrical Parts Degreaser

9/9

SDS US

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** QD® Contact Cleaner - 11 oz

Other means of identification

**Product Code** No. 02130 (Item# 1003218)

Recommended use Electronic cleaner Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

**Address** 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

Website

**Health hazards** 

**General Information** 215-674-4300 **Technical Assistance** 800-521-3168 800-272-4620 **Customer Service** 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC)

www.crcindustries.com

# 2. Hazard(s) identification

**Physical hazards** Flammable aerosols Category 1

> Gases under pressure Liquefied gas Skin corrosion/irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard

Category 1 Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

**OSHA** defined hazards

Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.

**Precautionary statement** 

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only outdoors or in a well-ventilated area. Maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapor. Wash thoroughly after handling. Wear protective gloves.

Material name: QD® Contact Cleaner - 11 oz SDS US

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash Response

with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for

breathing. Call a poison center/doctor if you feel unwell.

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

sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature

may cause can to burst.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
naphtha (petroleum), hydrotreat light	ed	64742-49-0	60 - 70
1,1-difluoroethane	HFC-152a	75-37-6	20 - 30
naphtha (petroleum), light alkyla	te	64741-66-8	5 - 10
isopropyl alcohol		67-63-0	1 - 5

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.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Eve contact Rinse with water. Get medical attention if irritation develops and persists.

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

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

Most important

symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Indication of immediate

medical attention and special

Symptoms may be delayed.

treatment needed **General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Dry chemical powder.

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

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire

and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when

exposed to heat or flame.

Material name: QD® Contact Cleaner - 11 oz

No. 02130 (Item# 1003218) Version #: 01 Issue date: 04-29-2021

# 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. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Emergency personnel need self-contained breathing equipment. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

#### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Туре	Value	
isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3	
		100 ppm	
US. ACGIH Threshold Limit Valu	ies		
0	Tuna	Value	
Components	Туре	value	
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
isopropyl alcohol (CAS			
isopropyl alcohol (CAS	STEL	400 ppm	
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	

Material name: QD® Contact Cleaner - 11 oz

<b>US. NIOSH: Pocket Guide to</b>	Chemical Hazards
Components	Type

Components	Туре	Value	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	400 mg/m3	
,		100 ppm	
US. Workplace Environmental E	xposure Level (WEEL) Guides		
Components	Туре	Value	
1,1-difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3	
		1000 ppm	

#### **Biological limit values**

ACGIH Biological Exposure Indices				
Components	Value	Determinant	Specimen	Sampling Time
isopropyl alcohol (CAS	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

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. Provide eyewash station and safety shower.

#### Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves such as: Polyvinyl alcohol (PVA). Viton/butyl.

Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not 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** Aerosol. Color Colorless.

Hydrocarbon-like. Odor Odor threshold Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

201.2 °F (94 °C) estimated

range

15.8 °F (-9.0 °C) estimated Flash point

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Very fast. **Evaporation rate** Flammability (solid, gas) Not available.

Material name: QD® Contact Cleaner - 11 oz

SDS US

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

0.9 % estimated

Flammability limit - upper

(%)

13 % estimated

Vapor pressure 1117.5 hPa estimated

> 1 (air = 1)Vapor density 0.75 estimated Relative density

Solubility(ies)

Solubility (water) Negligible. Not available. Partition coefficient

(n-octanol/water)

509 °F (265 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available. Percent volatile 82.1 % estimated

# 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 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materials Strong oxidizing agents. Hazardous decomposition

products

Carbon oxides. Sulfur oxides.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Based on available data, the classification criteria are not met.

Ingestion 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 Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness.

Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

May be fatal if swallowed and enters airways. Acute toxicity

Components **Species Test Results** 

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

**Acute** 

**Dermal** 

LD50 Rat > 2000 mg/kg

Inhalation

Vapor

LC50 Rat > 5.2 mg/l, 4 hours

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Based on available data, the classification criteria are not met.

irritation

Material name: QD® Contact Cleaner - 11 oz

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.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

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** Toxic to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

1,1-difluoroethane 0.75 isopropyl alcohol 0.05

**Bioconcentration factor (BCF)** 

naphtha (petroleum), hydrotreated light 10 - 2500

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 instructions** If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or

> dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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

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

disposal.

14. Transport information

DOT

**UN** number UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable, Limited Quantity

Class 2.1 Subsidiary risk 2.1 Label(s) Packing group **Environmental hazards** 

Marine pollutant Yes, but exempt from the regulations.

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

Special provisions N82 Packaging exceptions 306

Material name: QD® Contact Cleaner - 11 oz

Packaging non bulk None Packaging bulk None

**IATA** 

UN1950 **UN** number

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk Packing group **ERG Code** 10L

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN1950 **UN** number

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk Packing group

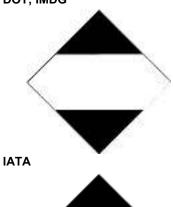
**Environmental hazards** 

Marine pollutant Yes, but exempt from the regulations.

F-D, S-U **EmS** 

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

# DOT; IMDG





# 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)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Material name: QD® Contact Cleaner - 11 oz

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#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **CERCLA Hazardous Substances: Reportable quantity**

Not listed

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### 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)

1,1-difluoroethane (CAS 75-37-6)

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

isopropyl alcohol (CAS 67-63-0)

Low priority

Food and Drug

Not regulated.

Administration (FDA)

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Gas under pressure

Skin corrosion or irritation

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### **US** state regulations

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

1,1-difluoroethane (CAS 75-37-6)

isopropyl alcohol (CAS 67-63-0)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

## US. Massachusetts RTK - Substance List

1,1-difluoroethane (CAS 75-37-6)

isopropyl alcohol (CAS 67-63-0)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

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

isopropyl alcohol (CAS 67-63-0)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

#### **US. Rhode Island RTK**

isopropyl alcohol (CAS 67-63-0)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

#### **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. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

isopropyl alcohol (CAS 67-63-0)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

naphtha (petroleum), light alkylate (CAS 64741-66-8)

# Volatile organic compounds (VOC) regulations

#### **EPA**

**VOC content (40 CFR** 74.9 %

51.100(s))

Material name: QD® Contact Cleaner - 11 oz

SDS US

**Consumer products** (40 CFR 59, Subpt. C)

Not regulated

State

Taiwan

This product is regulated as an Electronic Cleaner. This product is compliant for use in all 50 **Consumer products** 

states.

Inventory name

74.9 % VOC content (CA) VOC content (OTC) 74.9 %

#### **International Inventories**

Country(s) or region

		· · · · · · · · · · · · · · · · · · ·
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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)	No
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 that all components of this product comply with the inventory requirements administered by the governing country(s)

Taiwan Chemical Substance Inventory (TCSI)

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

04-29-2021 Issue date Prepared by Danica Fulmer

Version #

CRC # 1750971 **Further information** 

Disclaimer The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

SDS US No. 02130 (Item# 1003218) Version #: 01 Issue date: 04-29-2021

On inventory (yes/no)\*

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).

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** SP-400™ Corrosion Inhibitor

Other means of identification

No. 03282 (Item# 1003481) **Product Code** 

Recommended use Corrosion inhibitor Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name **Address** 

885 Louis Dr. Warminster, PA 18974 US

Telephone

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC) Website

www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B

Reproductive toxicity (fertility) Category 2

Category 3 narcotic effects Specific target organ toxicity, single exposure Aspiration hazard Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if **Hazard statement** 

swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause

drowsiness or dizziness. Suspected of damaging fertility. Toxic to aquatic life. Toxic to aquatic life

Category 2

with long lasting effects.

No. 03282 (Item# 1003481) Version #: 04 Revision date: 08-08-2018 Issue date: 12-02-2014

#### **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. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights, and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

#### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Collect spillage.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
liquefied petroleum gas		68476-86-8	20 - 30
2-methylpentane		107-83-5	10 - 20
naphtha (petroleum), hydrotreated heavy		64742-48-9	10 - 20
naphtha (petroleum), hydrotreated light		64742-49-0	10 - 20
distillates (petroleum), hydrotreated light		64742-47-8	5 - 10
dipropylene glycol monomethyl ether		34590-94-8	3 - 5
n-hexane		110-54-3	1 - 3

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

Remove contaminated clothing. Wash with plenty of soap and water. 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 if irritation develops and persists.

Ingestion

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

Most important symptoms/effects, acute and delaved

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** 

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. Show this safety data sheet to the doctor in attendance.

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### 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

US. OSHA Table Z-1 Limit Components		ype	-	Value
dipropylene glycol monomethyl ether (CAS 34590-94-8)	P	EL		600 mg/m3
				100 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	reated light (CAS		400 mg/m3	
				100 ppm
n-hexane (CAS 110-54-3)	P	PEL		1800 mg/m3
				500 ppm
US. ACGIH Threshold Lin	nit Values			
Components	T	ype		Value
2-methylpentane (CAS 107-83-5)	S	TEL		1000 ppm
	T	WA		500 ppm
dipropylene glycol monomethyl ether (CAS 34590-94-8)	S	TEL		150 ppm
•	T	NΑ		100 ppm
n-hexane (CAS 110-54-3)	T	WA		50 ppm
US. NIOSH: Pocket Guide	to Chemical Hazar	ds		
Components		ype		Value
2-methylpentane (CAS 107-83-5)	С	eiling		1800 mg/m3
				510 ppm
	T	NΑ		350 mg/m3
				100 ppm
dipropylene glycol monomethyl ether (CAS 34590-94-8)	S	TEL		900 mg/m3
,				150 ppm
	T	NΑ		600 mg/m3
				100 ppm
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	יד	TWA		100 mg/m3
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	т	WA		400 mg/m3
/				100 ppm
n-hexane (CAS 110-54-3)	T	WA		180 mg/m3
,				50 ppm
ogical limit values				
ACGIH Biological Exposu	ıre Indices			
Components	Value	Determinant	Specimen	Sampling Time
n-hexane (CAS 110-54-3)	0.5 mg/l	2,5-Hexanedi ne, without	o Urine	*

Material name: SP-400™ Corrosion Inhibitor

\* - For sampling details, please see the source document.

SDS US

#### **Exposure guidelines**

US - California OELs: Skin designation

dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

n-hexane (CAS 110-54-3) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

dipropylene alycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

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

dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Appropriate engineering controls

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 should 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

Wear protective gloves such as: Neoprene. Nitrile. Hand protection

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

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

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** Aerosol Dark amber. Color Odor Petroleum. Odor threshold Not available. Not available.

Melting point/freezing point -244.7 °F (-153.7 °C) estimated 118.4 °F (48 °C) estimated Initial boiling point and boiling

range

<0 °F (< -17.8 °C) Flash point

**Evaporation rate** Fast.

Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower 0.7 % estimated

Flammability limit - upper 14 % estimated

(%)

Vapor pressure 2062.4 hPa estimated

> 1 (air = 1)Vapor density Relative density 0.72 estimated

Material name: SP-400™ Corrosion Inhibitor SDS US 5 / 11 Solubility(ies)

Solubility (water) Negligible. Not available. Partition coefficient

(n-octanol/water)

404.6 °F (207 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available. 65.1 % estimated Percent volatile

# 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 Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** Aldehydes. Ketones. Organic acids. Carbon oxides.

products

#### 11. Toxicological information

#### Information on likely routes of exposure

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be Inhalation

harmful.

Skin contact Causes skin irritation. Eye contact Causes eye irritation.

Ingestion 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 Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing,

redness, and discomfort. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

May be fatal if swallowed and enters airways. Acute toxicity

**Test Results** Components **Species** 

dipropylene glycol monomethyl ether (CAS 34590-94-8)

Acute

**Dermal** 

LD50 Rabbit 9510 mg/kg

Inhalation

LC50 Rat 552 ppm

Oral

LD50 Rat 5135 mg/kg

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

**Acute** 

**Dermal** 

LD50 Rat > 2000 mg/kg

Inhalation

LC50 Rat > 5.2 mg/l, 4 hours

Oral

LD50 Rat > 5000 mg/kg, 2.5 hours

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

**Acute** 

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Material name: SP-400™ Corrosion Inhibitor

Components Species Test Results

Oral

LD50 Rat > 5000 mg/kg

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat 61 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

n-hexane (CAS 110-54-3)

Acute Dermal

LD50 Rabbit

Rabbit > 1300 mg/kg

Oral

LD50 Rat 15840 mg/kg

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**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.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

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** Toxic to aquatic life with long lasting effects.

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

2-methylpentane 3.74 n-hexane 3.9

**Bioconcentration factor (BCF)** 

naphtha (petroleum), hydrotreated light 10 - 25000

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.

No. 03282 (Item# 1003481) Version #: 04 Revision date: 08-08-2018 Issue date: 12-02-2014

# 13. Disposal considerations

Disposal instructions If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or

dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance

with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

**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 UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

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

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

ERG Code 10L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

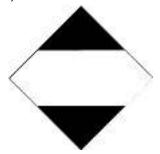
**Environmental hazards** 

Marine pollutant No.

EmS Not available.

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

DOT: IMDG





# 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)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

n-hexane (CAS 110-54-3)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

n-hexane (CAS 110-54-3) Listed.

**CERCLA Hazardous Substances: Reportable quantity** 

n-hexane (CAS 110-54-3) 5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Other federal regulations

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

n-hexane (CAS 110-54-3)

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

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Gas under pressure

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 n-hexane
 110-54-3
 1 - 3

#### **US** state regulations

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

2-methylpentane (CAS 107-83-5)

dipropylene glycol monomethyl ether (CAS 34590-94-8)

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Material name: SP-400™ Corrosion Inhibitor

naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

### **US. Massachusetts RTK - Substance List**

2-methylpentane (CAS 107-83-5)

dipropylene glycol monomethyl ether (CAS 34590-94-8)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

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

2-methylpentane (CAS 107-83-5)

dipropylene glycol monomethyl ether (CAS 34590-94-8) distillates (petroleum), hydrotreated light (CAS 64742-47-8) naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

#### **US. Rhode Island RTK**

dipropylene glycol monomethyl ether (CAS 34590-94-8) distillates (petroleum), hydrotreated light (CAS 64742-47-8) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-hexane (CAS 110-54-3)

#### **California Proposition 65**



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

## California Proposition 65 - CRT: Listed date/Carcinogenic substance

benzene (CAS 71-43-2)

cumene (CAS 98-82-8)

ethylbenzene (CAS 100-41-4)

naphthalene (CAS 91-20-3)

Listed: February 27, 1987

Listed: April 6, 2010

Listed: June 11, 2004

Listed: April 19, 2002

#### California Proposition 65 - CRT: Listed date/Developmental toxin

benzene (CAS 71-43-2) Listed: December 26, 1997 toluene (CAS 108-88-3) Listed: January 1, 1991

# California Proposition 65 - CRT: Listed date/Male reproductive toxin

benzene (CAS 71-43-2) Listed: December 26, 1997 n-hexane (CAS 110-54-3) Listed: December 15, 2017

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

liquefied petroleum gas (CAS 68476-86-8)

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-hexane (CAS 110-54-3)

#### Volatile organic compounds (VOC) regulations

#### **EPA**

**VOC content (40 CFR** 79.2 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products Not regulated VOC content (CA) 79.2 %

VOC content (OTC) 79.2 %

#### 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

Material name: SP-400™ Corrosion Inhibitor

Country(s) or region Inventory name On inventory (yes/no)\*

European Inventory of Existing Commercial Chemical

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

Japan Inventory of Existing and New Chemical Substances (ENCS)

No

Korea Existing Chemicals List (ECL)

New Zealand

New Zealand Inventory

No

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

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

Yes

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

Issue date12-02-2014Revision date08-08-2018Prepared byAllison Yoon

Version # 04

**Further information** CRC # 522G-H/1002528-1002530

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

Material name: SP-400™ Corrosion Inhibitor

Nο

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).



### SAFETY DATA SHEET

Preparation Date: Jan 28, 2021

Supersedes Date: Version Number: 00

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT IDENTIFIER** 

Product Name Heavy Duty Cleaner & Degreaser

Product ID Number DCT030020

**RECOMMENDED USE AND RESTRICTIONS ON USE** 

Cleaner and degreaser

**COMPANY IDENTIFICATION** 

**Manufacturer** Diversified Chemical Technologies, Inc.

15477 Woodrow Wilson, Detroit, MI 48238

(313) 867-5444

**EMERGENCY TELEPHONE NUMBER** 

24 Hour Emergency Phone Number (Health & Safety; Transportation) CHEMTREC - (800) 424-9300

SECTION 2 HAZARDS IDENTIFICATION

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200), Workplace Hazardous Materials Information System (WHMIS) 2015 and NOM-018-STPS-2015 and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **GHS CLASSIFICATION**

Product has not been tested to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories.

	Concentrate	Made from Concentrate (MFC)
		- Diluted to 50%
Hazard Class		
Skin		
Corrosion/Irritation	1C	N/A
Serious Eye		
Damage/Eye Irritation	1	N/A
Pictogram		None
GHS Signal Word	DANGER	N/A
GHS Hazard Phrases	Causes severe skin burns and eye damage. Causes serious eye damage.	No phrases apply
GHS Precaution	Do not breathe spray.	No phrases apply
Phrases	Wash hands thoroughly after handling.	
	Wear protective gloves and eye protection.	
	Wash contaminated clothing before reuse.	
GHS Response	IF ON SKIN (or hair): Remove/take off immediately all contaminated	No phrases apply
Phrases	clothing. Rinse skin with water/shower.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses, if present and easy to do. Continue rinsing.	

Preparation Date: Jan 28, 2021

Product Name: Heavy Duty Cleaner & Degreaser

-		
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	IF INHALED: Remove victim to fresh air and keep at rest in a position	
	comfortable for breathing.	
	Immediately call a doctor if condition worsens.	
GHS Storage and	Store locked up.	No phrases apply
<b>Disposal Phrases</b>	Dispose unused contents at local hazardous waste center or contact	
	licensed professional waste disposal service or contact your regulatory	
	department.	

#### **SECTION 3**

#### **COMPOSITION / INFORMATION ON INGREDIENTS**

CAS		Percentage Range	
Number	Ingredients*	Concentrate	Made from Concentrate (MFC) - Diluted to 50%
7758-29-4	Sodium phosphate, Tribasic	1-10	0.5 - 5
1310-73-2	Sodium hydroxide	1-10	0.5 - 5
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	1 - 10	0.5 - 5

<sup>\*</sup>Identity of other chemicals and/or exact percentage (concentration) has been withheld as a trade secret.

#### **SECTION 4**

#### **FIRST AID MEASURES**

#### IN CASE OF INHALATION

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### IN CASE OF SKIN CONTACT

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

#### IN CASE OF EYE CONTACT

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

#### IN CASE OF INGESTION

Do NOT induce vomiting. If victim is conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been investigated

#### **NOTE TO PHYSICIAN**

Treat symptomatically and supportively. It is advisable not to induce vomiting due to the risk of aspiration and it is not usually necessary unless a large amount has been ingested or it has been contaminated with another product.

#### SECTION 5 FIRE FIGHTING MEASURES

Flash Point	None
Flash Point Method	PMCC

<b>Explosive Limits</b>	<i>LEL</i> : N/D	<i>UEL</i> : N/D
Auto Ignition Point	N/D	

#### SUITABLE EXTINGUISHING MEDIA

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**FIRE FIGHTING INSTRUCTIONS** As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

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Product Name: Heavy Duty Cleaner & Degreaser

#### SAFETY DATA SHEET

Preparation Date: Jan 28, 2021

#### FLAMMABLE PROPERTIES AND HAZARDS No data available

#### **SECTION 6**

#### **ACCIDENTAL RELEASE MEASURES**

#### **NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. National Response Center (24-HR Reporting): (800) 424-8802.

#### SAFETY PRECAUTIONS

Use suitable protective clothing appropriate to spill size and risk of exposure. Refer to Section 8 for further details. Use extreme caution because affected area(s) may be slippery. For industrial use only. Keep out of reach of children.

#### **CONTAINMENT AND CLEANUP**

Avoid runoff into sanitary and storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions. Absorb spill with inert material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

**SECTION 7** 

#### HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### PRECAUTIONS TO BE TAKEN IN STORAGE

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep out of reach of children. Keep away from water. Corrosives area. Do not store in reactive metal containers (i.e. aluminum, tin, zinc and/or their alloys). Protect from freeze and high temperatures (>140 °F). Keep away from sparks, heat and flame.

SECTION 8	EXPOSURE CONTROLS /	PERSONAL PROTECTION

CAS#	Ingredients	OSHA TWA	ACGIH TWA	Other Limits
34590-94-8	Propanol, (2-	PEL: 100 ppm	TLV: 100 ppm	N/A
	Methoxymethylethoxy)-		STEL: 150 ppm	
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	N/A

#### **ENGINEERING CONTROLS**

The level of ventilation necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. If heavy misting is present, local exhaust ventilation should be considered in addition to general mechanical ventilation.

#### WORK/HYGIENIC/MAINTENANCE PRACTICES

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing separate from home laundry and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Do not store work clothing and protective equipment in the same locker as personal clothing.

#### PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal use.

**Respiratory Protection** None required under normal intended conditions of product use. However, if vapors or mists are present and if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, a NIOSH/MSHA approved respirator may be appropriate.

Page 3 of 6

**Product Name**: Heavy Duty Cleaner & Degreaser

SAFETY DATA SHEET

Preparation Date: Jan 28, 2021

**Hand Protection**For MFC: No protective equipment is needed under normal use conditions. For Concentrate: Wear appropriate protective gloves to prevent skin exposure. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: Chemical resistant rubber/Neoprene.

**Eye Protection** For MFC: No protective equipment is needed under normal use conditions. For Concentrate: Safety glasses are recommended. If splashing is likely, safety goggles or safety glasses with splash shield are recommended. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and Body Protection** For MFC: No protective equipment is needed under normal use conditions. For Concentrate: The types of clothing to be considered for this material include: Long-sleeved shirt and pants, at a minimum. If prolonged or repeated contact is likely, chemical-resistant clothing is recommended.

**OTHER PROTECTIVE EQUIPMENT For MFC:** None required under normal use conditions. **For Concentrate**: Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

	Concentrate	Made from concentrate (MFC) - Diluted to 50%
Appearance	Clear Purple	Clear Purple
Physical State	Liquid	Liquid
Odor	Mild Fragrance	Mild Fragrance
рН	12.7 - 12.9	9 – 10 (calculated)
Melting Point	N/A	N/A
<b>Boiling Point</b>	N/A	N/A
Specific Gravity (water = 1)	1.16-1.18	1.16-1.18
Vapor Pressure	N/D	N/D
Viscosity	N/AV	N/AV
Evaporation Rate (water = 1)	N/D	N/D
Volatile Organic Compounds (%)	None	None
Solubility in Water	N/D	N/D

#### SECTION 10 STABILITY / REACTIVITY

Chemical Stability Unstable [ ] Stable [ X ]

**Conditions to Avoid** Extreme temperatures

Reactivity / Incompatibility Strong oxidizing agents, strong acids, light reactive metals (aluminum, zinc, tin, galvanized steel, and

their alloys)

**Hazardous Decomposition**Material does not decompose at ambient temperature. Incomplete combustion or thermal decomposition may be expected to generate such materials as: acrid smoke and irritating fumes; particulate matter and unburned, hydrocarbons; oxides of carbon; oxides of potassium; water vapor; and other unidentified organic and inorganic compounds.

Hazardous Reactions Will occur [ ] Will not occur [ X ]

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### **CARCINOGENICITY**

No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

IARC: N/AV ACGIH: N/AV NTP: N/AV

#### PRODUCT TOXICOLOGICAL DATA

Product is not tested for classification under the following categories:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

Page 4 of 6

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

Product Name: Heavy Duty Cleaner & Degreaser

SAFETY DATA SHEET

Preparation Date: Jan 28, 2021

#### INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

Serious Eye Damage/Irritation: 34590-94-8: Eyes – Rabbit - Mild eye irritation

#### SECTION 12 ECOLOGICAL INFORMATION

General Ecological InformationN/AV.Persistence and DegradabilityN/AVBioaccumulative PotentialN/AV.Mobility in SoilN/AV

#### SECTION 13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.

#### SECTION 14

#### TRANSPORT INFORMATION

For product as shipped in its concentrate form

	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)
Proper Shipping Name	Corrosive Liquids, n.o.s.	(contains and sodium	hydroxide)
Hazard Class	8		
ID Number	UN 1760		
Packaging Group	III		

# Additional Information

**DOT Quantity Limitation: 5 L** 

DOT Label for Limited Quantities: LQ diamond per 49CFR172.315

#### **SECTION 15**

#### **REGULATORY INFORMATION**

#### EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS

[302 (EHS) TPQ, CERCLA RQ, 304 EHS RQ, 313 TRI]

None of the ingredients above 1% concentration (0.1% for carcinogens) are identified in the lists, except:

7758-29-4; Sodium phosphate, Tribasic - 304 RQ; 5000 LB

1310-73-2; Sodium hydroxide - 304 RQ; 1000 LB

**SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370)** – see Section 2 for hazard categories in accordance with EPA's June 2016 final rule on amendments to hazardous chemical inventory reporting

#### STATE AND OTHER US EPA REGULATIONS

California Prop. 65 N/AP

#### **NATIONAL INVENTORIES**

TSCA	Yes
CAA HAP, ODC	No
CWA NPDES	No

CEPA (DSL/NDSL)	Yes
KECI	N/D
AICS	N/D
IECSC	N/D

EINECS	N/D
ENCS	N/D
PICCS	N/D

echnologies, Inc. SAFETY DATA SHEET

Product Name: Heavy Duty Cleaner & Degreaser Preparation Date: Jan 28, 2021

	Concentrate	Made from concentrate (MFC) -
		Diluted to 50%
NFPA Rating:		
Health (Blue)	3	0
Flammability (Red)	0	0
Reactivity (Yellow)	0	0
Specific Hazard(s) (White)	COR/ALK	None

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

None

**USER RESPONSIBILITY** It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

#### PREPARED BY

Environmental, Health and Safety Department of Diversified Chemical Technologies, Inc. and Subsidiaries

THE INFORMATION CONTAINED HEREIN IS BASED ON INDIVIDUAL INGREDIENT DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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MAJOR PAINT -- SPEED ENAMEL, 17875
 MATERIAL SAFETY DATA SHEET
NSN: 801000N066410
Manufacturer's CAGE: 0V1C9
Part No. Indicator: A
Part Number/Trade Name: SPEED ENAMEL, 17875
 General Information
Company's Name: MAJOR PAINT CO
Company's Street: 4300 WEST 190TH STREET
Company's City: TORRANCE
Company's State: CA
Company's Country: US
Company's Zip Code: 90509-2868
Company's Emerg Ph #: 213-542-7701
Company's Info Ph #: 213-542-7701
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SMJ
Date MSDS Prepared: 020CT91
Safety Data Review Date: 20NOV95
MSDS Serial Number: CBDPD
Ingredients/Identity Information
Proprietary: NO
Ingredient: VM & P NAPHTHA; (ALIPHATIC PETROLEUM DISTILLATE). BP: 240-285F.
VP: 15 @ 100F.
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1003161VN
CAS Number: 64742-89-8
OSHA PEL: 100 PPM(MFR)
ACGIH TLV: 300 PPM(MFR)
------
Proprietary: NO
Ingredient: TOLUENE (SARA 313) (CERCLA). VP: 22.0 @ 68F.
Ingredient Sequence Number: 02
Percent: 6
NIOSH (RTECS) Number: XS5250000
CAS Number: 108-88-3
OSHA PEL: 200 PPM; Z-2
ACGIH TLV: 50 PPM, S
Proprietary: NO
Ingredient: SOLVENT NAPHTHA; (AROMATIC PETROLEUM DISTILLATE) . BP: >350F.
VP: 5.2 @ 100F.
Ingredient Sequence Number: 03
NIOSH (RTECS) Number: WF3100000
CAS Number: 64742-94-5
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)
Proprietary: NO
Ingredient: METHANE, DICHLORO-; (METHYLENE CHLORIDE). VP: 420 @ 77F. (SARA
313) (CERCLA)
Ingredient Sequence Number: 04
Percent: 48
NIOSH (RTECS) Number: PA8050000
CAS Number: 75-09-2
```

OSHA PEL: 500 PPM; Z-2 ACGIH TLV: 50 PPM, A2; 9495 Other Recommended Limit: NONE RECOMMENDED \_\_\_\_\_\_\_ Proprietary: NO Ingredient: PROPANE. VP: 200.0 @ 100F. Ingredient Sequence Number: 05 NIOSH (RTECS) Number: TX2275000 CAS Number: 74-98-6 OSHA PEL: 1000 PPM ACGIH TLV: ASPHYXIANT Proprietary: NO Ingredient: PROPANE, 2-METHYL-; (ISOBUTANE). VP: 72.0 @ 100F. Ingredient Sequence Number: 06 NIOSH (RTECS) Number: TZ4300000 CAS Number: 75-28-5 OSHA PEL: 1000 PPM(MFR) ACGIH TLV: 1000 PPM (MFR) \_\_\_\_\_\_ Proprietary: NO Ingredient: OTHER PRECS: PROD MAY BE HARMFUL/FATAL. DO NOT SAND, FLAME CUT, BRAZE/WELD DRY COATING W/OUT NIOSH/MSHA APPRVD (ING 8) Ingredient Sequence Number: 07 NIOSH (RTECS) Number: 99999992Z OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE Proprietary: NO Ingredient: ING 7: RESP OR SUFFICIENT VENTILATION. NO SMOKING IN AREA OF USE. DO NOT USE IN THE GENL VICINITY OF ARC(ING 9) Ingredient Sequence Number: 08 NIOSH (RTECS) Number: 9999999ZZ OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE Proprietary: NO Ingredient: ING 8: WELDING, OPEN FLAMES OR HOT SURFACES. HEAT &/UV RADIATION MAY CAUSE FORMATION OF HCL &/PHOSGENE (FP N). Ingredient Sequence Number: 09 NIOSH (RTECS) Number: 99999992Z OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE \_\_\_\_\_\_ Proprietary: NO Ingredient: OTHER PROT EQUIP: SPILL, SPLASH OR EXCESS OVERSPRAY. DO NOT USE CLTHG/SHOES WHILE SOLV ODOR IS RETAINED IN THEM. Ingredient Sequence Number: 10 NIOSH (RTECS) Number: 99999992Z OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE Proprietary: NO Ingredient: EFTS OF OVEREXP: ADRENOMIMETICS (E.G., EPINEPHRINE) MAY BE CONTRAINDICATED EXCEPT FOR LIFE-SUSTAINING USES IN (ING 12) Ingredient Sequence Number: 11 NIOSH (RTECS) Number: 99999992Z OSHA PEL: NOT APPLICABLE

ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: ING 11: HUMANS ACUTELY OR CHRONICALLY EXPOSED TO

CHLOROCARBONS (FP N).

Ingredient Sequence Number: 12 NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE

Proprietary: NO

Ingredient: FIRST AID PROC: NORMAL REQUIRED. IF BREATHING DFCLTYS DEVELOP

SEEK MED HELP. INGEST: CALL MD IMMEDIATELY (FP N).

Ingredient Sequence Number: 13 NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE

------

Proprietary: NO

Ingredient: EXPLAN OF CARCIN: ANTICIPATED TO BE CARCINOGEN. ANIMAL: LUNG,

LIVER, SALIVARY, MAMMARY GLAND (TUMORS) .

Ingredient Sequence Number: 14 NIOSH (RTECS) Number: 99999992Z

OSHA PEL: NOT APPLICABLE ACGIH TLV: NOT APPLICABLE

Physical/Chemical Characteristics

Appearance And Odor: AEROSOL CAN.

Boiling Point: >-43F,>-42C

Vapor Pressure (MM Hg/70 F): SEE ING

Vapor Density (Air=1): HVR/AIR Specific Gravity: 0.9(H\*20=1)

Evaporation Rate And Ref: SLOWER THAN ETHER

Solubility In Water: N/A

Fire and Explosion Hazard Data

2¥0\$=2¥q\$qC=2\$q\$q3=2¥q\$=2¥x£=2=2¥q±q\*=2±q\$=2±q\$=2±q\$=2±q\$q2q2=2=2=2=2±q±q±=2=2±

Flash Point: <20F,<-7C Flash Point Method: CC

Lower Explosive Limit: 1.0% Upper Explosive Limit: 25.0%

Extinguishing Media: FOAM, CO\*2, DRY CHEMICAL.

Special Fire Fighting Proc: WEAR NIOSH/MSHA APPRVD PRESS DEMAND SCBA & FULL PROT EQUIP(FP N). AVOID CONFINED SPACES. WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIA.

Unusual Fire And Expl Hazrds: VAPS ARE HVR/AIR & MAY ACCUM IN LOW AREAS OF POOR VENT/TRAVEL ALONG GROUND TO REMOTE IGNIT SITES. CONTENTS ARE UNDER PRESS. KEEP COOL, EXPOS TO HEAT(SUPDAT)

Reactivity Data

Stability: YES

Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: NO HAZARDOUS REACTIONS ARE EXPECTED TO OCCUR UNDER NORMAL INDUSTRIAL CONDITIONS.

Hazardous Decomp Products: COMBUSTION MAY YIELD CARBON MONOXIDE &/ CARBON DIOXIDE. HCL, PHOSGENE(FP N).

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT RELEVANT.

Health Hazard Data

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry - Inhalation: NO

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: SKIN/EYE:MATL MAY CAUSE EYE IRRIT. DIRECT MATL IS NOT KNOWN TO BE SKIN IRRIT, HOWEVER, IF ALLOWED TO REMAIN ON SKIN W/OUT BEING RINSED OFF W/WATER, A THIN FILM MAY FORM. REMOVAL OF FILM MAY RSLT IN SLIGHT IRRIT DEPENDENT ON METH(EFTS OF OVEREXP)

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: METHYLENE CHLORIDE:IARC MONO, SUPP, VOL 7, PG 194, 1987: GROUP 2B. NTP 7TH ANNUAL REPORT ON CARCINS, 1994: ANTIC(ING 14) Signs/Symptoms Of Overexp: HLTH HAZ:OF REMOVAL. TOLUENE APPEARS ON NAVY LIST OF OCCUP CHEM REPRO HAZS. SEEK CONSULT FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZ LIST INFO & SAFE HNDLG & EXPOS INFO(FP N). CHLOROCARBON MATLS HAVE PROCED SENSIT OF MYOCARDIUM TO EPINEPHRINE IN LAB

CHLOROCARBON MATLS HAVE PRDCED SENSIT OF MYOCARDIUM TO EPINEPHRINE IN LAB ANIMALS & COULD HAVE SIMILAR EFT IN HUMANS. (ING 11)

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: EYE: IF IRRIT/REDNESS FROM EXPOS TO VAPS DEVELS, MOVE VICTIM AWAY FROM EXPOS & INTO FRESH AIR. IF IRRIT/REDNESS PERSISTS, SEEK MED HELP. HOLD EYELIDS APART & FLUSH AFFECTED EYE W/CLEAN WATER FOR AT LEAST 15 MIN. SEEK MED HELP. SKIN: REMOVE CONTAMD CLTHG. CLEANSE AFFECTED AREA THORO BY WASHING W/MILD SOAP & WATER. IF IRRIT/ REDNESS DEVELS & PERSISTS, SEEK MED HELP. INHAL: FIRST AID IS NOT(ING 13)

#### Precautions for Safe Handling and Use

Store of Mati Pologod/Coill, EVAC AREA DUMOUR COURGES OF TOWER THESE

Steps If Matl Released/Spill: EVAC AREA. REMOVE SOURCES OF IGNIT, INCLG HOT METAL SURFS. WEAR APPROP CLTHG & GEAR. PVNT CONT & AVOID BRTHG OF VAPOR. CONFINE IMMED & REMOVE W/INERT ABSORBANT SUCH AS CLAY OR SAND. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DO NOT ALLOW TO CONTAM GROUND WATER SYSTEMS. PLACE IN NON-LEAKING CNTNRS. DISPOSE OF ABSORBED MATL IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS. DO NOT INCINERATE IN CLOSED CONTAINERS. Precautions-Handling/Storing: OBSERVE LABEL PRECS. KEEP AWAY FROM HEAT, SPARKS & OPEN FLAME (I.E., ALL IGNIT SOURCES). CAP CNTNR FOR EACH USE. DO NOT STORE >120F.

Other Precautions: STORE IN DRY, WELL VENTED PLACE. DO NOT EXPOSE TO DIRECT SUNLIGHT TO AVOID BURSTING. DO NOT SPRAY NEAR FIRE/FLAME. AVOID UNNEC CONT. DO NOT TAKE INTERNALLY. DO NOT PUNCTURE CNTNRS. INTENTIONAL MISUSE BY DELIB CONC & INHALING VAPS OF (ING 7)

#### Control Measures

Respiratory Protection: DO NOT BRTHG VAPS/MISTS. IF TLV, PEL/OTHER LIMS ARE EXCEEDED THEN WEAR PROPERLY FITTED VAP & PARTICULATE/POS PRESS AIR SUPPPLIED RESP APPRVD BY NIOSH/MSHA FOR USE W/PAINTS DURING APPLIC UNTIL ALL VAPS & SPRAY MISTS EXHST. FOLLOW(SUPDAT)

Ventilation: PROVIDE SUFF VENT IN VOL & PATTERN TO KEEP CONTAM <aPPLIC osha Reqs/other expos lims. Use only explos proof (supdat)  $\,$ 

Protective Gloves: IMPERVIOUS GLOVES(FP N).

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS (FP N).

Other Protective Equipment: ANSI APPRVD EMER EYEWASH & DELUGE SHOWER(FP N). APRON, COVERALLS/WORK CLTHS. CHANGE CLTHGS & SHOES IN CASE OF (ING 10) Work Hygienic Practices: WITH ALL CHEMICAL PRODUCTS, USE CARE IN HANDLING. DO NOT SMOKE/EAT W/OUT FIRST WASHING YOUR HANDS.

Suppl. Safety & Health Data: EXPLO HAZ:/SUNLIGHT MAY CAUSE CANS TO BURST & SPILL CONTENTS. WATER FROM FOG NOZZ MAY BE HELPFUL IN COOLING UNRUPTURED

CNTNRS TO PVNT PRESS BUILD-UP. THERM DECOMP PRODS MAY INCL HCL & EQUIP W/FLAMM MATLS.

Transportation Data

Disposal Data

Label Data

Label Required: YES

Technical Review Date: 20NOV95

Label Date: 20NOV95 Label Status: G

Common Name: SPEED ENAMEL, 17875

Chronic Hazard: YES Signal Word: DANGER!

Acute Health Hazard-Moderate: X

Contact Hazard-Slight: X Fire Hazard-Severe: X Reactivity Hazard-None: X

Special Hazard Precautions: EXTREMELY FLAMMABLE. ACUTE: INHALATION OF IRRITATION, BURNING, TEARING, REDNESS. SKIN: IRRITATION. CHRONIC: CANCER HAZARD. CONTAINS METHYLENE CHLORIDE WHICH IS AN ANIMAL LUNG CARCINOGEN (FP N). TOLUENE APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS (FP N).

Protect Eye: Y Protect Skin: Y

Protect Respiratory: Y
Label Name: MAJOR PAINT CO

Label Street: 4300 WEST 190TH STREET

Label City: TORRANCE

Label State: CA

Label Zip Code: 90509-2868

Label Country: US

Label Emergency Number: 213-542-7701

# CR®

# SAFETY DATA SHEET

#### 1. Identification

Product identifier QD™ Contact Cleaner - 311 g

Other means of identification

**Product Code** No. 72130 (Item# 1006130)

Recommended use Electronic cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.

Address 83 Galaxy Blvd
Unit 35 - 37

Toronto, ON M9W 5X6

Canada

Telephone

**General Information** 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC)
Website

www.crc-canada.ca

E-mail Support.CA@crcindustries.com

#### 2. Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas
Physical hazards not otherwise classified Category 1

Health hazards Skin corrosion/irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1
Hazardous to the aquatic environment, acute Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 1

#### Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Static

accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Material name: QD™ Contact Cleaner - 311 g

**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves. Avoid release to the environment.

No. 72130 (Item# 1006130) Version #: 01 Issue date: 05-09-2019

IF SWALLOWED: Immediately call a POISON CENTER/doctor, Do NOT induce vomiting, IF ON Response

SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. In case of

leakage, eliminate all ignition sources. Collect spillage.

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

sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.

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

Other hazards None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
naphtha (petroleum), hydrotreated light		64742-49-0	30 - 60
3-methylhexane		589-34-4	10 - 30
n-heptane		142-82-5	10 - 30
2,2,4-trimethylpentane		540-84-1	5 - 10
2-methylhexane		591-76-4	5 - 10
methylcyclohexane		108-87-2	5 - 10
carbon dioxide		124-38-9	3 - 7
2,3-dimethylpentane		565-59-3	1 - 5
3-ethylpentane		617-78-7	1 - 5
naphtha (petroleum), light alkylate		64741-66-8	0.5 - 1.5
3,3-dimethylpentane		562-49-2	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 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.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

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

Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Most important Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

# 5. Fire-fighting measures

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may Suitable extinguishing media

protect themselves.

be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Material name: QD™ Contact Cleaner - 311 q

SDS CANADA No. 72130 (Item# 1006130) Version #: 01 Issue date: 05-09-2019

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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

Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. 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. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

Precautions for safe handling

Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	

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US.	<b>ACGI</b>	H Thre	shold	I imit	Values

US. ACGIH Threshold Limit Value		
Components	Туре	Value
	TWA	400 ppm
3-methylhexane (CAS 589-34-4)	STEL	500 ppm
	TWA	400 ppm
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm
n-heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sch	edule 1, Table 2)
Components	Туре	Value
2,2,4-trimethylpentane (CAS 540-84-1)	TWA	1400 mg/m3
		300 ppm
2,3-dimethylpentane (CAS 565-59-3)	STEL	2050 mg/m3
		500 ppm
	TWA	1640 mg/m3
		400 ppm
2-methylhexane (CAS 591-76-4)	STEL	2050 mg/m3
		500 ppm
	TWA	1640 mg/m3
		400 ppm
3,3-dimethylpentane (CAS 562-49-2)	STEL	2050 mg/m3
	T\A/A	500 ppm
	TWA	1640 mg/m3
O attacks and an a COAO	OTEL	400 ppm
3-ethylpentane (CAS 617-78-7)	STEL	2050 mg/m3
	TIA/A	500 ppm
	TWA	1640 mg/m3
0.000	OTEL	400 ppm
3-methylhexane (CAS 589-34-4)	STEL	2050 mg/m3
	TIA/A	500 ppm
	TWA	1640 mg/m3
carbon dioxide (CAS 124-38-9)	STEL	400 ppm 54000 mg/m3
12 <del>7</del> 2000)		30000 ppm
	TWA	9000 mg/m3
	1 ¥ ¥ 🗥	5000 ppm
methylcyclohexane (CAS	TWA	1610 mg/m3
108-87-2)	I ¥¥/^\	10 to mg/mo

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# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
		400 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
		400 ppm	
n-heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm
	TWA	400 ppm
2-methylhexane (CAS 591-76-4)	STEL	500 ppm
	TWA	400 ppm
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm
	TWA	400 ppm
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm
	TWA	400 ppm
3-methylhexane (CAS 589-34-4)	STEL	500 ppm
	TWA	400 ppm
carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm
n-heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm

Canada. Manitoba OELs (Reg. 21 Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	
	TWA	400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	500 ppm	
	TWA	400 ppm	

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Components	Туре	Value
carbon dioxide (CAS 24-38-9)	STEL	30000 ppm
	TWA	5000 ppm
nethylcyclohexane (CAS 08-87-2)	TWA	400 ppm
n-heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Ontario OELs. (Control o	f Exposure to Biological or Ch	nemical Agents)
Components	Туре	Value
2,3-dimethylpentane (CAS 665-59-3)	STEL	500 ppm
	TWA	400 ppm
-methylhexane (CAS 91-76-4)	STEL	500 ppm
	TWA	400 ppm
3,3-dimethylpentane (CAS 662-49-2)	STEL	500 ppm
	TWA	400 ppm
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm
	TWA	400 ppm
s-methylhexane (CAS 89-34-4)	STEL	500 ppm
	TWA	400 ppm
arbon dioxide (CAS 24-38-9)	STEL	30000 ppm
	TWA	5000 ppm
nethylcyclohexane (CAS 08-87-2)	TWA	400 ppm
n-heptane (CAS 142-82-5)	STEL	500 ppm
	TWA	400 ppm
Canada. Quebec OELs. (Ministry o	of Labor - Regulation respecti Type	ng occupational health and safety) Value
2,2,4-trimethylpentane CAS 540-84-1)	STEL	1750 mg/m3
		375 ppm
	TWA	1400 mg/m3
		300 ppm
arbon dioxide (CAS 24-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
nethylcyclohexane (CAS 08-87-2)	TWA	1610 mg/m3
		400 ppm
	TWA	1590 mg/m3
ydrotreated light (CAS	TWA	<b>5</b>
ydrotreated light (CAS	IWA	-
naphtha (petroleum), nydrotreated light (CAS 64742-49-0) n-heptane (CAS 142-82-5)	STEL	400 ppm 2050 mg/m3

Material name: QD™ Contact Cleaner - 311 g

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Components	Туре	Value
		500 ppm
	TWA	1640 mg/m3
		400 ppm
Canada. Saskatchewan OE	Ls (Occupational Health and Safety Re	egulations, 1996, Table 21)
Components	Туре	Value
2,2,4-trimethylpentane (CAS 540-84-1)	15 minute	375 ppm
	8 hour	300 ppm
carbon dioxide (CAS 124-38-9)	15 minute	30000 ppm
	8 hour	5000 ppm
methylcyclohexane (CAS 108-87-2)	15 minute	500 ppm
	8 hour	400 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	15 minute	500 ppm
	8 hour	400 ppm
n-heptane (CAS 142-82-5)	15 minute	500 ppm
	8 hour	400 ppm
ogical limit values	No biological exposure limits noted for	the ingredient(s).
propriate engineering trols	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 of other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Proceedings of the process of the	
vidual protection measures	, such as personal protective equipme	nt
Eye/face protection	Wear safety glasses with side shields	(or goggles).
Skin protection		
Hand protection	Wear protective gloves such as: Polyv	inyl alcohol (PVA). Viton/butyl.
Other	Wear appropriate chemical resistant c	lothina

Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not 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. Aerosol. **Form** Color Colorless.

Odor Hydrocarbon-like. **Odor threshold** Not available. Not available.

Melting point/freezing point -195.9 °F (-126.6 °C) estimated Initial boiling point and boiling 179.6 °F (82 °C) estimated

range

Flash point 15.8 °F (-9 °C) estimated **Evaporation rate** Very fast. Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

12 % estimated Flammability limit - upper

(%)

2935.6 hPa estimated Vapor pressure

Vapor density > 1 (air = 1)Relative density 0.73 estimated

Solubility(ies)

Solubility (water) Negligible. Partition coefficient Not available.

(n-octanol/water)

509 °F (265 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Percent volatile 92.5 % estimated

# 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.

0.9 % estimated

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Strong oxidizing agents. Aluminum. Incompatible materials

Hazardous decomposition

products

Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Direct contact with eyes may cause temporary irritation. Eye contact

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

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness.

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Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways.

Components **Species Test Results** 

2,2,4-trimethylpentane (CAS 540-84-1)

**Acute** Inhalation

LC50 Rat 118 mg/l, 4 Hours

3-methylhexane (CAS 589-34-4)

**Acute Dermal** 

LD50 Rabbit > 2000 mg/kg

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Components **Species Test Results** Inhalation Rat LC50 > 20 mg/l, 4 hours Oral Rat LD50 > 2000 mg/kg carbon dioxide (CAS 124-38-9) Acute Inhalation Gas LC50 Rat 470000 ppm, 30 minutes methylcyclohexane (CAS 108-87-2) **Acute** Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 4000 mg/kg naphtha (petroleum), hydrotreated light (CAS 64742-49-0) **Acute** Dermal LD50 Rabbit > 2000 mg/kg Inhalation LC50 Rat 61 mg/l, 4 Hours Oral LD50 Rat > 5000 mg/kg n-heptane (CAS 142-82-5) Acute **Dermal** LD50 Rabbit 3000 mg/kg Inhalation Vapor LC50 Rat > 73.5 mg/l, 4 hours Oral LD50 Rat 25000 mg/kg Causes skin irritation. Skin corrosion/irritation Direct contact with eyes may cause temporary irritation. Serious eye damage/eye irritation Respiratory or skin sensitization Canada - Alberta OELs: Irritant 2,2,4-trimethylpentane (CAS 540-84-1) Irritant Respiratory sensitization Not a respiratory sensitizer. This product is not expected to cause skin sensitization. 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 Not classifiable as to carcinogenicity to humans. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity -May cause drowsiness and dizziness. single exposure Specific target organ toxicity -Not classified. repeated exposure

May be fatal if swallowed and enters airways.

Prolonged inhalation may be harmful.

**Aspiration hazard** 

**Chronic effects** 

#### 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components Species Test Results

methylcyclohexane (CAS 108-87-2)

Aquatic

Fish LC50 Striped bass (Morone saxatilis) 5.8 mg/l, 96 hours

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Aquatic

Acute

 Crustacea
 EC50
 Daphnia
 1 - 10 mg/l, 48 hours

 Fish
 LC50
 Fish
 1 - 10 mg/l, 96 hours

n-heptane (CAS 142-82-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 1.5 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 2.1 - 2.98 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2,2,4-trimethylpentane5.18methylcyclohexane3.61n-heptane4.66

**Bioconcentration factor (BCF)** 

naphtha (petroleum), hydrotreated light 10 - 25000

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

under pressure. Do not puncture, incinerate or crush. 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.

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

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

disposal. Do not re-use empty containers.

#### 14. Transport information

TDG

UN number UN1950

UN proper shipping name AEROSOLS, flammable, Limited Quantity

Class 2.1

Transport hazard class(es)

Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** Yes, but exempt from the regulations.

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

Special provisions 80

**IATA** 

UN number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

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**ERG Code** 10L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

**IMDG** 

UN1950 **UN** number

AEROSOLS, Limited Quantity **UN** proper shipping name

Transport hazard class(es)

2.1 Class Subsidiary risk

**Packing group** Not applicable.

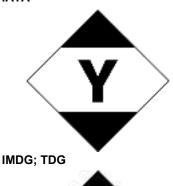
**Environmental hazards** 

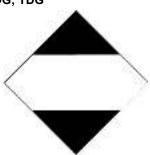
Yes, but exempt from the regulations. Marine pollutant

Not available. **EmS** 

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

#### IATA





# 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

carbon dioxide (CAS 124-38-9)

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

carbon dioxide (CAS 124-38-9) Listed.

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#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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

Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) No
Korea Existing Chemicals List (ECL) Yes
New Zealand New Zealand Inventory Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

TaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

#### 16. Other information

**Issue date** 05-09-2019

Version # 01

Further information CRC # 1750971

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co..

Revision information This document has undergone significant changes and should be reviewed in its entirety.

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<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).

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# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

# 1. Identification

Product Name: HPERF LSPR 6PK FLUOR GRN MARKING Revision Date: 1/11/2022

Product Identifier: V2333838 Supercedes Date: 8/6/2018

Recommended Use: Marking Paint/Aerosols

Supplier: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8

Canada

Emergency Phone: 800-387-3625

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

Manufacturer:

Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061

USA

#### 2. Hazards Identification

### Classification

Symbol(s) of Product



# Signal Word

Danger

#### Possible Hazards

45% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Skin Sensitizer, category 1 H317 May cause an allergic skin reaction.

Germ Cell Mutagenicity, category 1B H340 May cause genetic defects.

Carcinogenicity, category 1B H350 May cause cancer.

Gases under Pressure; Compressed Gas H280 Contains gas under pressure; may explode if heated.

#### GHS LABEL PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO

SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

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

Not Yet Specified

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P321 For specific treatment see label.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C (122°F).

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P363 Wash contaminated clothing before reuse.

# 3. Composition / Information on Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Propane	74-98-6	17	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	17	GHS08	H304
Hydrous Magnesium Silicate	14807-96-6	8.7	Not Available	Not Available
n-Butane	106-97-8	8.0	GHS04	H280
Acetone	67-64-1	7.3	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	3.6	GHS02-GHS07	H226-336
Hydrotreated Light Distillate	64742-47-8	3.0	GHS08	H304
Aliphatic Hydrocarbon	64742-89-8	2.6	GHS08	H304-340-350
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.1	GHS02-GHS07	H226-315-319-332
n-Heptane	142-82-5	0.9	GHS02-GHS07- GHS08	H225-304-315-336
Octane	111-65-9	0.9	GHS02-GHS07- GHS08	H225-304-315-336
Ethylbenzene	100-41-4	0.3	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.2	GHS06-GHS08	H304-331-372
Methyl Ethyl Ketoxime	96-29-7	0.1	GHS05-GHS06- GHS07-GHS08	H302-312-315-317-318-331-336 -350-370-373

# 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

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# 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

#### Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

# 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Acetone	67-64-1	10.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
n-Heptane	142-82-5	1.0	400 ppm	500 ppm	500 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

# 9. Physical and Chemical Properties

**Physical State:** Appearance: Aerosolized Mist Liquid Odor: Solvent Like Odor Threshold: N.E. Specific Gravity: 0.872 pH: N.A. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-octanol/ Slight N.D. Decomposition Temp., °C: N.D. Boiling Range, °C: Explosive Limits, vol%: -37 - 537 0.9 - 13.0Flash Point, °C: Flammability: Supports Combustion -96 **Evaporation Rate:** Auto-Ignition Temp., °C: Faster than Ether N.D. Vapor Pressure: Vapor Density: N.D. Heavier than Air

(See "Other information" Section for abbreviation legend)

# 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

# 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** No Information

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust which ,if inhalable, can may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	Chemical Name	<u>Oral LD50</u>	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	Ň.E.	30
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat

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67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-89-8	Aliphatic Hydrocarbon	N.Ĕ.	3000 mg/kg Rabbit	N.Ĕ.
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
142-82-5	n-Heptane	N.E.	3000 mg/kg Rabbit	>73.5 mg/L Rat
111-65-9	Octane	N.E.	Ň.E.	>24.88 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
8052-41-3	Stoddard Solvent	N.E.	>3000 mg/kg Rabbit	>5.5 mg/L Rat
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat

N.E. - Not Established

# 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

# 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

# 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

# 15. Regulatory Information

# U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Germ cell mutagenicity

#### SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- Isomers)1330-20-7Ethylbenzene100-41-4

#### **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

Chemical NameCAS-No.Castor oil, sulfated, sodium salt68187-76-8

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# U.S. State Regulations:

# California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

# 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability: 0

Volatile Organic Compounds: 525 g/L SDS REVISION DATE: 1/11/2022

REASON FOR REVISION: Product Composition Changed

Substance and/or Product Properties Changed in

Section(s): 01 - Identification

02 - Hazard Identification

09 - Physical & Chemical Properties

14 - Transport Information15 - Regulatory Information16 - Other Information

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

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# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

# 1. Identification

HPERF LSPR 6PK GLOSS ORANGE FL. **Product Name:** 

MARKING

**Product Identifier:** V2355838

Recommended Use: Marking Paint/Aerosol

**Rust-Oleum Corporation** Supplier:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8

Canada

Emergency Phone: 800-387-3625

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

**Revision Date:** 

Supercedes Date: 8/6/2018

**Rust-Oleum Corporation** Manufacturer:

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

1/11/2022

#### 2. Hazards Identification

#### Classification

Symbol(s) of Product



# Signal Word

Danger

#### Possible Hazards

45% of the mixture consists of ingredient(s) of unknown acute toxicity.

### **GHS HAZARD STATEMENTS**

Carcinogenicity, category 1B

Flammable Aerosol, category 1 H222 Extremely flammable aerosol. H317 Skin Sensitizer, category 1 May cause an allergic skin reaction.

Germ Cell Mutagenicity, category 1B H340 May cause genetic defects. H350

Gases under Pressure; Compressed Gas H280 Contains gas under pressure; may explode if heated.

#### **GHS LABEL PRECAUTIONARY STATEMENTS**

P201 Obtain special instructions before use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO P210

May cause cancer.

SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P272 Contaminated work clothing should not be allowed out of the workplace. Date Printed: 1/12/2022 Page 2 / 6

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

P321 For specific treatment see label.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C (122°F).

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P363 Wash contaminated clothing before reuse.

# 3. Composition / Information on Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Propane	74-98-6	17	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	17	GHS08	H304
Hydrous Magnesium Silicate	14807-96-6	8.6	Not Available	Not Available
n-Butane	106-97-8	8.0	GHS04	H280
Acetone	67-64-1	7.2	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	3.6	GHS02-GHS07	H226-336
Hydrotreated Light Distillate	64742-47-8	3.2	GHS08	H304
Aliphatic Hydrocarbon	64742-89-8	2.6	GHS08	H304-340-350
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.1	GHS02-GHS07	H226-315-319-332
n-Heptane	142-82-5	0.9	GHS02-GHS07- GHS08	H225-304-315-336
Octane	111-65-9	0.9	GHS02-GHS07- GHS08	H225-304-315-336
Stoddard Solvent	8052-41-3	0.9	GHS06-GHS08	H304-331-372
Pigment Orange 13	3520-72-7	0.4	Not Available	Not Available
Ethylbenzene	100-41-4	0.3	GHS02-GHS07- GHS08	H225-304-332-351-373
Methyl Ethyl Ketoxime	96-29-7	0.1	GHS05-GHS06- GHS07-GHS08	H302-312-315-317-318-331-336 -350-370-373

# 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

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**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

# 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

#### Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

# 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Acetone	67-64-1	10.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
n-Heptane	142-82-5	1.0	400 ppm	500 ppm	500 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Pigment Orange 13	3520-72-7	1.0	N.E.	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

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**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

# 9. Physical and Chemical Properties

Appearance: Physical State: Aerosolized Mist Liquid Odor: Odor Threshold: Solvent Like N.E. Specific Gravity: pH: N.A. 0.870 Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Sliaht Partition Coefficient, n-octanol/ N.D. water: Decomposition Temp., °C: N.D. Boiling Range, °C: -37 - 537 **Explosive Limits, vol%:** 0.9 - 13.0Flammability: Supports Combustion Flash Point, °C: -96 **Evaporation Rate:** Auto-Ignition Temp., °C: Faster than Ether N.D. Vapor Density: Vapor Pressure: Heavier than Air N.D.

(See "Other information" Section for abbreviation legend)

# 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**Hazardous Polymerization:** Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

# 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: No Information

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust which ,if inhalable, can may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

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#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	Ň.E.	30
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-89-8	Aliphatic Hydrocarbon	N.E.	3000 mg/kg Rabbit	N.E.
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
142-82-5	n-Heptane	N.E.	3000 mg/kg Rabbit	>73.5 mg/L Rat
111-65-9	Octane	N.E.	N.E.	>24.88 mg/L Rat
8052-41-3	Stoddard Solvent	N.E.	>3000 mg/kg Rabbit	>5.5 mg/L Rat
3520-72-7	Pigment Orange 13	5000 mg/kg Rat	>2000 mg/kg Rat	N.E.
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat

N.E. - Not Established

# 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

# 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

# 14. Transport Information

UN Number:	Domestic (USDOT) N.A.	International (IMDG) 1950	<u>Air (IATA)</u> 1950	TDG (Canada) N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

# 15. Regulatory Information

# U.S. Federal Regulations:

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Germ cell mutagenicity

#### **SARA Section 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- Isomers)1330-20-7Ethylbenzene100-41-4

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#### **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from

the United States:

Chemical NameCAS-No.Castor oil, sulfated, sodium salt68187-76-8

# U.S. State Regulations:

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

# 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability: 0

Volatile Organic Compounds: 524 g/L SDS REVISION DATE: 1/11/2022

REASON FOR REVISION: Product Composition Changed

Substance and/or Product Properties Changed in

Section(s):

02 - Hazard Identification

09 - Physical & Chemical Properties

14 - Transport Information15 - Regulatory InformationRevision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Date Printed: 1/12/2022 Page 1 / 6

# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

# 1. Identification

Product Name: HPERF LSPR 6PK GLOSS RED-ORG FL

MARKING

Product Identifier: V2358838

Recommended Use: Marking Paint/Aerosol

Supplier: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8

Canada

Emergency Phone: 800-387-3625

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

Revision Date: 1/11/2022

Supercedes Date: 8/6/2018

Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

#### 2. Hazards Identification

#### Classification

Symbol(s) of Product



# Signal Word

Danger

#### Possible Hazards

45% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Skin Sensitizer, category 1 H317 May cause an allergic skin reaction.

Germ Cell Mutagenicity, category 1B H340 May cause genetic defects.

Carcinogenicity, category 1B H350 May cause cancer.

Gases under Pressure; Compressed Gas H280 Contains gas under pressure; may explode if heated.

#### **GHS LABEL PRECAUTIONARY STATEMENTS**

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO

SMOKING.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P321 For specific treatment see label.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C (122°F).

#### **GHS SDS PRECAUTIONARY STATEMENTS**

P363 Wash contaminated clothing before reuse.

# 3. Composition / Information on Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Propane	74-98-6	17	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	17	GHS08	H304
Hydrous Magnesium Silicate	14807-96-6	8.7	Not Available	Not Available
n-Butane	106-97-8	8.0	GHS04	H280
Acetone	67-64-1	7.3	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	3.6	GHS02-GHS07	H226-336
Hydrotreated Light Distillate	64742-47-8	3.1	GHS08	H304
Aliphatic Hydrocarbon	64742-89-8	2.6	GHS08	H304-340-350
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.2	GHS02-GHS07	H226-315-319-332
Octane	111-65-9	0.9	GHS02-GHS07- GHS08	H225-304-315-336
n-Heptane	142-82-5	0.9	GHS02-GHS07- GHS08	H225-304-315-336
Ethylbenzene	100-41-4	0.3	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.2	GHS06-GHS08	H304-331-372
Methyl Ethyl Ketoxime	96-29-7	0.1	GHS05-GHS06- GHS07-GHS08	H302-312-315-317-318-331-336 -350-370-373

# 4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

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### 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

### Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

### 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

### 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	20.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	N.E.	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Acetone	67-64-1	10.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Octane	111-65-9	1.0	300 ppm	N.E.	500 ppm	N.E.
n-Heptane	142-82-5	1.0	400 ppm	500 ppm	500 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.

### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

### 9. Physical and Chemical Properties

**Physical State:** Appearance: Aerosolized Mist Liquid Odor: Solvent Like Odor Threshold: N.E. Specific Gravity: 0.870 pH: N.A. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-octanol/ Slight N.D. Decomposition Temp., °C: N.D. Boiling Range, °C: Explosive Limits, vol%: -37 - 537 0.9 - 13.0Flash Point, °C: Flammability: Supports Combustion -96 **Evaporation Rate:** Auto-Ignition Temp., °C: Faster than Ether N.D. Vapor Pressure: Vapor Density: N.D. Heavier than Air

(See "Other information" Section for abbreviation legend)

### 10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

### 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** No Information

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust which ,if inhalable, can may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	Chemical Name	<u>Oral LD50</u>	Dermal LD50	Vapor LC50
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	Ň.E.	30
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat

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67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-89-8	Aliphatic Hydrocarbon	N.Ĕ.	3000 mg/kg Rabbit	N.Ĕ.
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
111-65-9	Octane	N.E.	N.E.	>24.88 mg/L Rat
142-82-5	n-Heptane	N.E.	3000 mg/kg Rabbit	>73.5 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
8052-41-3	Stoddard Solvent	N.E.	>3000 mg/kg Rabbit	>5.5 mg/L Rat
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat

N.E. - Not Established

### 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

### 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

### 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

### 15. Regulatory Information

### U.S. Federal Regulations:

### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Germ cell mutagenicity

### SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- Isomers)1330-20-7Ethylbenzene100-41-4

### **Toxic Substances Control Act**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

Chemical NameCAS-No.Castor oil, sulfated, sodium salt68187-76-8

Date Printed: 1/12/2022 Page 6 / 6

### U.S. State Regulations:

### California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 4 Instability: 0

Volatile Organic Compounds: 525 g/L SDS REVISION DATE: 1/11/2022

REASON FOR REVISION: Product Composition Changed

Substance and/or Product Properties Changed in

Section(s):

02 - Hazard Identification

09 - Physical & Chemical Properties

14 - Transport Information15 - Regulatory Information16 - Other Information

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

To: SICE

04/10/2003 10:17

From: Shermin-Williams

## Material Safety Data Sheet

The Sharwin-Wildoms Co. Consumer Group - Indusinal Cleveland, OH 44115

Emergency lelephone number information helephone number Date of preparation

02000, The Sherwth-Willams Co. (216) 546-2917 (800) 777-2966 June 5, 2000

## AEROSOL/ISD1

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108-17-0	Butane	008	00 <b>3</b>	Mdd	760.0	41	17	- 21	11	. 41	17	13	11	11	17	_
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Ingrediem subject to the reporting requirements of the Superfund Amendments and Resulherization Act (SARA) Section 313, 40 CFR 372.86 C

ANDS Text Page Follows

- Section 1 - Product Identification

04/10/2003 To: SICE

From: Sherwin-Williams

## AEROSOL/ISD

NATIONAL Aerosol Paint

Section 3 — Physical Data

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Section 4 — Fire And Explosion Yazard Data

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## Section 5 - Realth Hazard Data

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EXPERSOR OF ORDER FORCE.

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Section 6 — Reactivity Data

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## Section 7 — Spill Or Leak Procedures

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## Section 8 -- Protection Information

REPROFICED TO BE FRIETY IN ORT.

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with akin and system, that hands effect using.

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dust an Appli TrV 16 or profit chais as listed is Section 3, the applicable india or mulance

those are Applied trV 16 or profit for all castion.

Final dust; S wo. Am [respirable fraction].

Local extenst preferable. General actions in compasses if the exponent to materials in Section 3 is maintained below explicable exposure Alakte. Refer to 60% Standards 1910-14, 1910-109, 1910-109.

If persons appears cannot be controlled below applicable limits by wortherlan, wear a properly littled organic vapor/partholists replicator approved by mode/Man for protection against materials in faction 2. When analysis and for the folial 2. When analysis and personal property of the design absiding the dried film, wear a dest/mist respirator approved by Michigan for that the has be generated from this product, underlying paint, or the absistation.

were required for normal application of samuel products where windows akin contact is expected. For long or repeated contact, west chemical remistant element elements and structure of provinces.

West safety appetitates with unperforeted aidealishing.

### Section 9 - Precoutions

DOG STRANDS CANADAY - IN MARIACATORS TO AS WALES IN WARMADO AND STRAINS Keep cast Arms heat, epocks, and open thans. Vapors will accumulate readily and may ignite explosively.

Description and until all vapors are game: Keep ares ventilated - Do not muchs - thatlequish all tissue, plict lights, and hazars - Turn off stowes, electric books and appliances, and any other sources of immitted.

Compare more to the speciment books and formed approximates of the contract of the speciments. The approximates under paramers. Do not punctive, inchested, or agons to temperature above 120°F.

Set from subject, rediscore, slower, but wetak, and other has sources could remae container to be but take internally. Newpout of the reach of children.

intentional alsons by deliberately concentrating and inhalling the contents (an be bereit) in fatel.

## Section 10 — Other Regulatory Information

MATGRISH Thank products contein charactain brown to the Grate of California to cause carear and birth defects an other reproductive bars. CALIFORNIA PROPOSITIONS 65

all chemicals in these products are listed, or are wongt from listing, on the foca Iorentory.

The above information partials to these products in currently formaleted, and is based on the information sysiliate at this time. Addition of reducts no other additions to these products may emistartially also the compasticion and baseds of the product. Since conditions of use are outside our courts, so asks so systemicies, entrange or implied, and assume no liability in connection with any use of this information.

# covers MSDS pages AEROSOL/ISD1, AEROSOL/ISD2 & AEROSOL/ISD3



### SAFETY DATA SHEET

### 1. Identification

**Product identifier** Zinc-It® Instant Cold Galvanize

Other means of identification

**Product Code** No. 18413 (Item# 1005241)

Recommended use Coating (for use in shop applications or on non-stationary structures)

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries. Inc. Company name 885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

Website

215-674-4300 **General Information Technical Assistance** 800-521-3168 **Customer Service** 800-272-4620 24-Hour Emergency 800-424-9300 (US)

(CHEMTREC)

www.crcindustries.com

### 2. Hazard(s) identification

Physical hazards Flammable liquids Category 2 Health hazards 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

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 1

exposure

Aspiration hazard Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or

dizziness. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Category 1

Category 1

### **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. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not allow contact with water. Do not breathe mist or vapor. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Do not eat. drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor 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. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. In case of fire: Do not use water, as it may form hydrogen gas. Collect spillage.

**Storage Disposal**  Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
zinc		7440-66-6	70 - 80
xylene		1330-20-7	10 - 20
ethylbenzene		100-41-4	1 - 3
naphtha (petroleum), hydrotreate light	d	64742-49-0	1 - 3
zinc oxide		1314-13-2	1 - 3

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. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

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

Most important symptoms/effects, acute and

delayed

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause

redness and pain. Prolonged exposure may cause chronic effects.

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. Keep victim under observation. Symptoms may be delayed.

**General information** 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

Water fog. Foam. Dry sand. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Material name: Zinc-It® Instant Cold Galvanize

### Unsuitable extinguishing media

Do not use water as an extinguisher.

### 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. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. Contact with water may cause an explosion or may produce a flammable gas. 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

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.

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. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

### 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. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. 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. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Eliminate sources of ignition. Avoid spark promoters. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. 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 Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value Form
ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3
		100 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3

Material name: Zinc-It® Instant Cold Galvanize

US. OSHA Table Z-1 Lim Components		Type	•	Val	ue	Form
				100	) ppm	
xylene (CAS 1330-20-7)		PEL		435	mg/m3	
				100	) ppm	
zinc oxide (CAS 1314-13-2	2)	PEL		5 m	ıg/m3	Respirable fraction.
				5 m	ıg/m3	Fume.
				15	mg/m3	Total dust.
US. ACGIH Threshold Li	mit Values	Туре		Val		Form
-						
ethylbenzene (CAS 100-41-4)		TWA		20	ppm	
xylene (CAS 1330-20-7)		STEL		150	) ppm	
		TWA		100	) ppm	
zinc oxide (CAS 1314-13-2	2)	STEL		10	mg/m3	Respirable fraction.
		TWA		2 m	ıg/m3	Respirable fraction.
US. NIOSH: Pocket Guid	e to Chemical I			<u>.</u>		
Components		Туре		Val	ue	Form
ethylbenzene (CAS 100-41-4)		STEL		545	5 mg/m3	
, , , , , , , , , , , , , , , , , , ,					ppm	
		TWA			5 mg/m3	
					) ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)		TWA		400	) mg/m3	
				100	) ppm	
xylene (CAS 1330-20-7)		STEL		655	mg/m3	
				150	) ppm	
		TWA		435	mg/m3	
				100	) ppm	
zinc oxide (CAS 1314-13-2	2)	Ceilin	g	15	mg/m3	Dust.
		STEL		10	mg/m3	Fume.
		TWA		5 m	ıg/m3	Fume.
				5 m	ıg/m3	Dust.
ogical limit values						
ACGIH Biological Expos Components	ure Indices Value		Determinant	Specimen	Sampling	Time
ethylbenzene (CAS	0.15 g/g		Sum of	Creatinine in	*	
100-41-4)	2 J' J		mandelic acid	urine		
			and phenylglyoxylic			
			acid			
	1.5 g/g		Methylhippuric	Creatinine in	*	

\* - For sampling details, please see the source document.

### 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 should 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 protective gloves such as: Nitrile. Neoprene. Wear appropriate chemical resistant clothing. Other

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Wash hands after handling and before eating. Keep away from food and drink.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Liquid. Color Gray. Odor Solvent. **Odor threshold** Not available. Not available.

-138.8 °F (-94.9 °C) estimated Melting point/freezing point

Initial boiling point and boiling

range

210 °F (98.9 °C)

45 °F (7.2 °C) Tag Closed Cup Flash point

Slow. **Evaporation rate** 

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

0.7 %

Flammability limit - upper

22.7 %

(%)

(%)

Vapor pressure 3.7 hPa estimated

Vapor density > 1 (air = 1)

Relative density 2 47

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

550 °F (287.8 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available. 58.1 % Percent volatile

### 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.

Material name: Zinc-It® Instant Cold Galvanize

SDS US No. 18413 (Item# 1005241) Version #: 05 Revision date: 12-03-2018 Issue date: 08-24-2015

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.

Do not allow contact with water. Hydrogen gas may form producing an explosive environment.

Incompatible materials

Acids. Bases. Oxidizing agents. Water.

**Hazardous decomposition** products

Carbon oxides. Contact with water may cause an explosion or may produce a flammable gas.

### 11. Toxicological information

### Information on likely routes of exposure

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause Inhalation

drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory

system.

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation.

Ingestion 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 Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause

redness and pain.

### Information on toxicological effects

May be fatal if swallowed and enters airways. Acute toxicity

Components	Species	Test Results
ethylbenzene (CAS 100-41-4	4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	15400 mg/kg
Oral		
LD50	Rat	3500 mg/kg
naphtha (petroleum), hydrotr	reated light (CAS 64742-49-0)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	61 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 4300 mg/kg
Inhalation		
LC50	Rat	29 mg/l, 4 hours
zinc (CAS 7440-66-6)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
zinc oxide (CAS 1314-13-2)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 1.79 mg/l, 4 hours (no deaths occurred)

Components Species Test Results

Oral

LD50 Rat > 5000 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**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.

**Carcinogenicity** Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

single exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting,

may cause chemical pneumonia, pulmonary injury or death.

**Chronic effects**Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components Species Test Results

zinc (CAS 7440-66-6)

Aquatic Acute

Fish LC50 Rainbow trout.donaldson tr

Rainbow trout, donaldson trout 0.482 mg/l, 96 hours

(Oncorhynchus mykiss)

zinc oxide (CAS 1314-13-2)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 0.098 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 1.1 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

ethylbenzene 3.15 xylene 3.12 - 3.2

**Bioconcentration factor (BCF)** 

ethylbenzene

naphtha (petroleum), hydrotreated light 10 - 25000 xylene 23.99 zinc oxide 60690

Mobility in soil No data available.

SDS US

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

This material and its container must be disposed of as hazardous waste. Collect and reclaim or **Disposal instructions** 

> dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used

container. Dispose in accordance with all applicable regulations.

D001: Waste Flammable material with a flash point <140 F Hazardous waste code

F003: Waste Non-halogenated Solvent - Spent Non-halogenated Solvent

### **US RCRA Hazardous Waste U List: Reference**

U239 xylene (CAS 1330-20-7)

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

**UN** number UN1263

**UN proper shipping name** 

Transport hazard class(es)

Paint, Limited Quantity

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

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

B1, B52, IB3, T2, TP1, TP29 Special provisions

150 Packaging exceptions 173 Packaging non bulk 242 Packaging bulk

IATA

UN1263 **UN** number

Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid **UN proper shipping name** 

lacquer base), Limited Quantity

Transport hazard class(es)

3 Class Subsidiary risk Ш Packing group 31 **ERG Code** 

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN1263 **UN number** 

UN proper shipping name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid

lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound),

Limited Quantity

Transport hazard class(es)

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

Marine pollutant Yes, but exempt from the regulations.

F-E, S-E

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

Material name: Zinc-It® Instant Cold Galvanize

SDS US

### DOT; IMDG



### 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)

Not regulated

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ETHYLBENZENE (CAS 100-41-4) Xylene (mixed isomers) (CAS 1330-20-7) ZINC (FUME OR DUST) (CAS 7440-66-6) ZINC COMPOUNDS (CAS 1314-13-2)

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

 ethylbenzene (CAS 100-41-4)
 Listed.

 xylene (CAS 1330-20-7)
 Listed.

 zinc (CAS 7440-66-6)
 Listed.

 zinc oxide (CAS 1314-13-2)
 Listed.

### **CERCLA Hazardous Substances: Reportable quantity**

ethylbenzene (CAS 100-41-4) 1000 LBS xylene (CAS 1330-20-7) 100 LBS zinc (CAS 7440-66-6) 1000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

### Other federal regulations

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

ethylbenzene (CAS 100-41-4) xylene (CAS 1330-20-7)

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

SDS US

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Hazard not otherwise classified (HNOC)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
ethylbenzene	100-41-4	1 - 3	
xylene	1330-20-7	10 - 20	
zinc	7440-66-6	70 - 80	
zinc oxide	1314-13-2	1 - 3	

### **US state regulations**

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

ethylbenzene (CAS 100-41-4) naphtha (petroleum), hydrotreated light (CAS 64742-49-0) xylene (CAS 1330-20-7)

zinc (CAS 7440-66-6) zinc oxide (CAS 1314-13-2)

### **US. Massachusetts RTK - Substance List**

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

xylene (CAS 1330-20-7) zinc (CAS 7440-66-6) zinc oxide (CAS 1314-13-2)

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

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

xylene (CAS 1330-20-7) zinc (CAS 7440-66-6) zinc oxide (CAS 1314-13-2)

### **US. Rhode Island RTK**

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

xylene (CAS 1330-20-7) zinc (CAS 7440-66-6)

### **California Proposition 65**



WARNING: Cancer - www.P65Warnings.ca.gov

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ethylbenzene (CAS 100-41-4)

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

xylene (CAS 1330-20-7)

zinc (CAS 7440-66-6)

### Volatile organic compounds (VOC) regulations

### **EPA**

VOC content (40 CFR 20 %

51.100(s))

**Architectural coatings** Not regulated

(40 CFR 59, Subpt. D)

State

**Architectural coatings** Not regulated 493.7 q/l **VOC** content

### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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	No

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory No **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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

Issue date 08-24-2015 12-03-2018 **Revision date** Prepared by Allison Yoon

Version # 05

The information contained in this document applies to this specific material as supplied. It may not Disclaimer

> be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

Product and Company Identification: Product Codes **Revision information** 

Physical & Chemical Properties: Multiple Properties

Toxicological information: Reproductivity

Transport Information: Proper Shipping Name/Packing Group

Material name: Zinc-It® Instant Cold Galvanize

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No. 18413 (Item# 1005241) Version #: 05 Revision date: 12-03-2018 Issue date: 08-24-2015

<sup>\*</sup>A "Yes" indicates that all components of this product comply 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).