



## Regulatory Data Sheet

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This Regulatory Data Sheet is provided as a courtesy in response to a customer request.

<b>Document Group:</b>	22-4654-4	<b>Version Number:</b>	11.00
<b>Issue Date:</b>	01/20/22	<b>Supersedes Date:</b>	07/19/21

## 2380 Scotch® High Performance Masking Tape

3M  
Closure and Masking Systems  
3M Center, St. Paul, MN 55144-1000, USA  
1-888-3M HELPS (1-888-364-3577)

RDSs are available at [www.3M.com](http://www.3M.com)

### Regulations and Industry Standards

#### SDS (US OSHA)

This product is an article and therefore is not subject to the requirements of the US Occupational Safety and Health Administration's (OSHA) Hazardous Communications Standard 29 CFR 1910.1200(b)(6)(v) to provide a Safety Data Sheet (SDS).

#### California Proposition 65

To the best of the manufacturer's knowledge, this product is in compliance with Proposition 65, and reasonably anticipated use of this product will not result in exposure to any Proposition 65 chemicals that would require a Proposition 65 warning.

#### China RoHS

This product or part does not exceed the maximum concentration values (MCVs) in China RoHS GB/T 26572-2011 (Requirements of Concentration limits for certain restricted substances in electrical and electronic products), which means that each of the homogeneous materials within this product is below the following MCVs: (a) 0.1% (by weight) for lead and its compounds, mercury and its compounds, hexavalent chromium and its compounds, polybrominated biphenyls or polybrominated diphenyl ethers; and (b) 0.01% (by weight) for cadmium and its compounds.

#### CONEG

This product complies with the US CONEG (Coalition of Northeastern Governors) Model Toxics in Packaging Legislation as there is no intentionally added lead, cadmium, hexavalent chromium or mercury, and the sum total concentration of these substances in the product does not exceed 100 ppm by weight.

#### Conflict Minerals

Conflict Minerals, which the U.S. Securities and Exchange Commission ("SEC") has defined as gold, columbite-tantalite (coltan), cassiterite, wolframite, or their derivatives (tin, tantalum, or tungsten), are not contained in or are not "necessary to the functionality or necessary to the production" of the above-listed product, as the term "necessary to the functionality or the production" is defined under the SEC's Conflict Minerals Rule. 77 Fed. Reg. 56274 (Sept. 12, 2012).

#### CPSIA 2008

A Certificate of General Conformity per the US Consumer Product Safety Act, 15 U.S.C. § 2063 (a)(1), as revised by section 102 of the 2008 US Consumer Product Safety Improvement Act, is not required for the requested product.

**EU Azo Colourant Directive**

This product does not contain azo dyes which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines listed in the Appendix I, in detectable concentrations above 30 ppm in the finished article or in the dyes parts thereof, according to the testing method established in accordance with Article 2a of this European Commission Directive 2002/61/EC (2004/21/EC).

**EU REACH**

Substances listed in Annex XIV of Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) are not intentionally added to this product.

**EU REACH**

Substances listed in Annex XVII of Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) are not intentionally added to this product.

**EU REACH**

This product is an article, without intended release of a chemical substance, under the Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (refer to REACH, Article 3(3)). It is not a chemical preparation. Therefore, it is not subject to the (pre)-registration or the registration process. It does not require a safety data sheet.

**EU REACH**

This product, including any article that the product is composed of, does not contain at greater than 0.1% by weight a Substance of Very High Concern (SVHC) substance identified according to Article 59 of REACH. This declaration reflects the substances on the candidate SVHC list, effective January 2022.

**EU RoHS**

This product does not exceed the maximum concentration values (MCVs) set under EU Directive 2011/65/EU (RoHS recast/RoHS 2), as stated in Annex II to that directive. This means that each of the homogenous materials within this product does not exceed the following MCVs: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; and (b) 0.01% (by weight) for cadmium.

**EU RoHS Phthalates**

This product does not exceed the maximum concentration values (MCVs) for phthalates set under EU Directive 2011/65/EU (RoHS recast/RoHS 2), as amended by EU 2015/863, which applies to finished EEE after July 22, 2019 for Category 1-7, 10-11 products and after July 22, 2021 for Category 8 and 9 products. This means that each of the homogeneous materials within this product does not exceed the MCV of 0.1% (by weight) for each of the following phthalates: DEHP, BBP, DBP, and DIBP.

**Fluorinated Greenhouse Gas**

A Fluorinated Greenhouse Gas (or F-Gas) listed under Annex I and II of Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 is not intentionally added to the product.

**Stockholm Agreement**

This product does not contain Persistent Organic Pollutants (POPs) at or above applicable thresholds per Annexes A, B, and C of the Stockholm Convention, May 2004 and subsequent amendments.

**Sustainability Advantage: Recycled content**

This product does not contain recycled content.

**Chemicals and/or Compounds of Interest**

**4,4'-Methylenebis(2,6-Diethylaniline) (CAS 13680-35-8)** : Not intentionally added.

**Alkylphenol (AP)** : Not intentionally added.

**Alkylphenolethoxylates (APE)** : Not intentionally added.

**Antimony and (Sb) Compounds** : Not intentionally added.

**Aromatic Amines** : Not intentionally added.

**Arsenic and (As) Compounds** : Not intentionally added.

**Asbestos** : Not intentionally added.

**Azocolorants and Azodyes** : Not intentionally added.

**Beryllium and (Be) Compounds** : Not intentionally added.

**Bismuth and (Bi) Compounds** : Not intentionally added.

**Bisphenol A (BPA) (CAS 80-05-7)** : Not intentionally added.

**Butyl Benzyl Phthalate (BBP) (CAS 85-68-7)** : Not intentionally added.

**Cadmium and (Cd) Compounds** : Not intentionally added.

**Chlorinated Paraffins, Short Chain** : Not intentionally added.  
**Crystalline Silica** : Not intentionally added.  
**Decabromodiphenyl Ether (Deca-BDE) (CAS 1163-19-5)** : Not intentionally added.  
**Di(2-Ethylhexyl) Phthalate (DEHP) (CAS 117-81-7)** : Not intentionally added.  
**Dibutyl Phthalate (DBP) (CAS 84-74-2)** : Not intentionally added.  
**Dibutyl Tin Compounds** : Not intentionally added.  
**Diisodecyl Phthalate (DIDP)** : Not intentionally added.  
**Diisononyl Phthalate (DINP)** : Not intentionally added.  
**Dimethyl Fumarate (DMF) (CAS 624-49-7)** : Not intentionally added.  
**Dimethylacetamide (CAS 127-19-5)** : Not intentionally added.  
**Di-n-Octyl Phthalate (DNOP) (CAS 117-84-0)** : Not intentionally added.  
**Dioxins and Furans** : Not intentionally added.  
**Flame Retardants (not PBB or PBDE)** : Not intentionally added.  
**Flavorings** : Not intentionally added.  
**Formaldehyde (CAS 50-00-0)** : Not intentionally added.  
**Genetically Modified Organisms (GMOs)** : Not intentionally added.  
**Gluten** : Not intentionally added.  
**Halogenated Compounds** : Bromine, chlorine, fluorine, iodine or chemical compounds containing them are not intentionally added.  
**Hexavalent Chromium and (Cr+6) Compounds** : Not intentionally added.  
**Lead and (Pb) Compounds** : Not intentionally added.  
**Materials of Human or Animal Origin** : Not intentionally added.  
**Melamine (CAS 108-78-1)** : Not intentionally added.  
**Mercury and (Hg) Compounds** : Not intentionally added.  
**Musk Xylene (CAS 81-15-2)** : Not intentionally added.  
**Natural Rubber Latex** : Contains.  
**Nickel and (Ni) Compounds** : Not intentionally added.  
**Nonylphenol (NP)** : Not intentionally added.  
**Nonylphenol Ethoxylates (NPE)** : Not intentionally added.  
**Organochlorine Pesticides** : Not intentionally added.  
**Organophosphate Pesticides** : Not intentionally added.  
**Organotin Compounds** : Not intentionally added.  
**Ozone Depleting Chemicals (ODCs)** : Not intentionally added.  
**Perfluorooctanesulfonic Acid (PFOS) (CAS 1763-23-1)** : Not intentionally added.  
**Perfluorooctanoic Acid (PFOA) (CAS 335-67-1)** : Not intentionally added.  
**Polybrominated Biphenyls (PBB)** : Not intentionally added.  
**Polybrominated Diphenylethers (PBDE)** : Not intentionally added.  
**Polychlorinated Biphenyls (PCBs)** : Not intentionally added.  
**Polychlorinated Naphthalenes (PCNs) (>3 Chlorine Atoms)** : Not intentionally added.  
**Polycyclic Aromatic Hydrocarbons (PAHs)** : Not intentionally added.  
**Polyvinyl Chloride (PVC)** : Not intentionally added.  
**Radioactive Substance** : Not intentionally added.  
**Selenium and (Se) Compounds** : Not intentionally added.  
**Tetrabromobisphenol A (TBBA) (CAS 79-94-7)** : Not intentionally added.  
**Tributyl Tin Compounds** : Not intentionally added.  
**Triphenyl Tin Compounds** : Not intentionally added.

Disclaimers: The information provided in this document related to material content represents 3M's knowledge and belief, which may be based in whole or in part on information provided by suppliers to 3M. This is intended to answer commonly asked questions about 3M products and is not intended to be a comprehensive listing of all substances that may be of interest or that may be regulated in this or other 3M products, nor is it intended to be a comprehensive summary of any and all regulations that may apply to this product. Where substances are listed, their listing does not infer or constitute a judgment as to their safety, environmental or health impacts. Information is supplied upon the condition that the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. Customers are encouraged to consult with legal and regulatory experts to determine applicable regulations in light of intended use of the product.

Limitation of Remedies and Liability: In the event any Product is proven not to conform with the information in this document, then to the extent permitted by law, 3M's entire liability and Buyer's exclusive remedy, will be at 3M's option either: (i) replacement of Product with a conforming product, or (ii) refund

of the purchase price paid by Buyer for each non-conforming Product, within a reasonable time after written notification of said non-conformance and return of said Product to 3M. 3M shall not under any circumstances be liable for direct, incidental, special, or consequential damages (including but not limited to loss of profits, revenue, or business) related to or arising out of this certification, including, the use, misuse or inability to use the Product. Unless stated otherwise in writing, the foregoing language cannot be waived, modified, or supplemented in any manner whatsoever.



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<b>Document Group:</b>	31-6229-4	<b>Version Number:</b>	12.00
<b>Issue Date:</b>	01/20/22	<b>Supersedes Date:</b>	09/29/21

## 3M™ Performance Masking Tape 301+

3M  
Closure and Masking Systems  
3M Center, St. Paul, MN 55144-1000, USA  
1-888-3M HELPS (1-888-364-3577)

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**Stockholm Agreement**

This product does not contain Persistent Organic Pollutants (POPs) at or above applicable thresholds per Annexes A, B, and C of the Stockholm Convention, May 2004 and subsequent amendments.

**Sustainability Advantage: Recycled content**

This product does not contain recycled content.

**TSCA Section 6**

This product is not known to contain 2,4,6-Tri-tert-butylphenol (CAS 732-26-3).

**TSCA Section 6**

This product is not known to contain Decabromodiphenyl Ether (Deca-BDE) (CAS 1163-19-5).

**TSCA Section 6**

This product is not known to contain Hexachlorobutadiene (HCB) (CAS 87-68-3).

**TSCA Section 6**

This product is not known to contain Pentachlorothiophenol (PCTP) (CAS 133-49-3).

**TSCA Section 6**

This product is not known to contain Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS 68937-41-7).

**TSCA Section 6(h) PBT Chemicals**

This product is not known to contain the five TSCA Section 6(h) Persistent, Bioaccumulative, and Toxic (PBT) Chemicals issued December 2020: Decabromodiphenyl Ether (Deca-BDE) (CAS 1163-19-5), 2,4,6-Tri-tert-butylphenol (CAS 732-26-3), Phenol, isopropylated phosphate (3:1) (PIP (3:1)) (CAS 68937-41-7), Hexachlorobutadiene (HCB) (CAS 87-68-3), and Pentachlorothiophenol (PCTP) (CAS 133-49-3).

**Chemicals and/or Compounds of Interest**

**4,4'-Methylenebis(2,6-Diethylaniline) (CAS 13680-35-8)** : Not intentionally added.

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**Alkylphenolethoxylates (APE)** : Contains.

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**Aromatic Amines** : Not intentionally added.

**Arsenic and (As) Compounds** : Not intentionally added.

**Asbestos** : Not intentionally added.

**Azocolorants and Azodyes** : Not intentionally added.

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**Bismuth and (Bi) Compounds** : Not intentionally added.

**Bisphenol A (BPA) (CAS 80-05-7)** : Not intentionally added.  
**Butyl Benzyl Phthalate (BBP) (CAS 85-68-7)** : Not intentionally added.  
**Cadmium and (Cd) Compounds** : Not intentionally added.  
**Chlorinated Paraffins, Short Chain** : Not intentionally added.  
**Crystalline Silica** : Not intentionally added.  
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**Di(2-Ethylhexyl) Phthalate (DEHP) (CAS 117-81-7)** : Not intentionally added.  
**Dibutyl Phthalate (DBP) (CAS 84-74-2)** : Not intentionally added.  
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**Dimethyl Fumarate (DMF) (CAS 624-49-7)** : Not intentionally added.  
**Dimethylacetamide (CAS 127-19-5)** : Not intentionally added.  
**Di-n-Octyl Phthalate (DNOP) (CAS 117-84-0)** : Not intentionally added.  
**Dioxins and Furans** : Not intentionally added.  
**Flame Retardants (not PBB or PBDE)** : Not intentionally added.  
**Flavorings** : Not intentionally added.  
**Formaldehyde (CAS 50-00-0)** : Not intentionally added.  
**Genetically Modified Organisms (GMOs)** : Not intentionally added.  
**Gluten** : Not intentionally added.  
**Halogenated Compounds** : Bromine, chlorine, fluorine, iodine or chemical compounds containing them are not intentionally added.  
**Hexavalent Chromium and (Cr+6) Compounds** : Not intentionally added.  
**Lead and (Pb) Compounds** : Not intentionally added.  
**Materials of Human or Animal Origin** : Not intentionally added.  
**Melamine (CAS 108-78-1)** : Not intentionally added.  
**Mercury and (Hg) Compounds** : Not intentionally added.  
**Musk Xylene (CAS 81-15-2)** : Not intentionally added.  
**Natural Rubber Latex** : Contains.  
**Nickel and (Ni) Compounds** : Not intentionally added.  
**Nonylphenol (NP)** : Contains.  
**Nonylphenol Ethoxylates (NPE)** : Contains.  
**Organochlorine Pesticides** : Not intentionally added.  
**Organophosphate Pesticides** : Not intentionally added.  
**Organotin Compounds** : Not intentionally added.  
**Ozone Depleting Chemicals (ODCs)** : Not intentionally added.  
**Perfluorooctanesulfonic Acid (PFOS) (CAS 1763-23-1)** : Not intentionally added.  
**Perfluorooctanoic Acid (PFOA) (CAS 335-67-1)** : Not intentionally added.  
**Phosphorus and (P) Compounds** : Not intentionally added.  
**Polybrominated Biphenyls (PBB)** : Not intentionally added.  
**Polybrominated Diphenylethers (PBDE)** : Not intentionally added.  
**Polychlorinated Biphenyls (PCBs)** : Not intentionally added.  
**Polychlorinated Naphthalenes (PCNs) (>3 Chlorine Atoms)** : Not intentionally added.  
**Polycyclic Aromatic Hydrocarbons (PAHs)** : Not intentionally added.  
**Polyvinyl Chloride (PVC)** : Not intentionally added.  
**Radioactive Substance** : Not intentionally added.  
**Selenium and (Se) Compounds** : Not intentionally added.  
**Sulfur and (S) Compounds** : Contains.  
**Tetrabromobisphenol A (TBBA) (CAS 79-94-7)** : Not intentionally added.  
**Tributyl Tin Compounds** : Not intentionally added.  
**Triphenyl Tin Compounds** : Not intentionally added.

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safety, environmental or health impacts. Information is supplied upon the condition that the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. Customers are encouraged to consult with legal and regulatory experts to determine applicable regulations in light of intended use of the product.

**Limitation of Remedies and Liability:** In the event any Product is proven not to conform with the information in this document, then to the extent permitted by law, 3M's entire liability and Buyer's exclusive remedy, will be at 3M's option either: (i) replacement of Product with a conforming product, or (ii) refund of the purchase price paid by Buyer for each non-conforming Product, within a reasonable time after written notification of said non-conformance and return of said Product to 3M. 3M shall not under any circumstances be liable for direct, incidental, special, or consequential damages (including but not limited to loss of profits, revenue, or business) related to or arising out of this certification, including, the use, misuse or inability to use the Product. Unless stated otherwise in writing, the foregoing language cannot be waived, modified, or supplemented in any manner whatsoever.



**SECTION 1 – PRODUCT AND COMPANY INFORMATION**

<b>COMMON NAME:</b>	Polyvinyl Chloride (PVC) Type 1 Pipe/Conduit/Fittings/Accessories	
<b>CHEMICAL NAME:</b>	Not Applicable. Formulation. See Section 3	
<b>FORMULA:</b>	Mixture / Formulation	
<b>PRODUCT CAS NO.:</b>	Mixture. See Section 3	
<b>RECOMMENDED USE:</b>	PVC Pipe for Electrical Wire and Cable	
<b>SUPPLIER:</b>	CANTEX Inc.	CANTEX Inc.
<b>ADDRESS:</b>	301 Commerce St., Suite 2700	2101 Southeast 1 <sup>st</sup> Street
<b>CITY, STATE, ZIP:</b>	Fort Worth, TX 76102	PO Box 340 - Mineral Wells, TX 76068
<b>PHONE:</b>	817-215-7000	940-325-3344

**SECTION 2 – HAZARDS IDENTIFICATION**

All ingredients inserted during the manufacturing process and are not expected to generate any hazards in handling or in use under normal conditions.

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.



**Hazard Statement**

PVC materials in pipe form are inert and should not constitute any hazard in normal use or handling. When exposed to fire, it may emit fumes and these could cause irritation to eyes and respiratory system.

**Classification of Mixture**

Eye and respiratory system irritation

**Signal Word**

Warning

**Precautionary Statement**

Avoid breathing fumes/gases when product is exposed to fire.

**SECTION 3 – COMPOSITION / INFORMATION OF INGREDIENTS**

<b>Boiling Point</b>	N/A	<b>Appearance &amp; Odor</b>	<b>Rigid / No Odor</b>
<b>Melting Point</b>	N/A	<b>% Volatile by Weight</b>	N/A
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.4 – 1.6 gms/cc	<b>pH</b>	N/A
<b>Solubility in Water</b>	Insoluble	<b>Particle Size</b>	N/A
<b>Vapor Pressure (MM=Hg)</b>	N/A	<b>Vapor Density (AIR=1)</b>	N/A

**SECTION 4 – FIRST AID MEASURES**

If irritation of eyes, skin, or respiratory system persists, remove the affected individual from the incident area. Provide protection prior re-entry.

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Flash Point</b>	Not applicable to solid products
<b>Ignition Temperature</b>	Above 734°F (390°C)
<b>Flammable Limits in Air (% by volume)</b>	Lower: N/A      Upper: N/A
<b>Extinguishing Media</b>	Water, foam, and dry chemicals
<b>Special Fire Fighting Procedures</b>	PVC gives off thick smoke and toxic gasses and fumes such as carbon monoxide when burning. Firefighters must wear self-contained breathing apparatus.
<b>Unusual Fire and Explosion Hazards</b>	Combustion products are hazardous and toxic in nature. Thick smoke may obscure vision. PVC pipe and conduit will not burn unless supported by other combustible material.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<b>Threshold Limit Value</b>	None established
<b>Efforts of Overexposure</b>	Under most circumstances, exposure to PVC pipe materials poses no significant risk to health. During fire, toxic fumes such as carbon monoxide and other gasses are given off, which are injurious to all sensitive skin areas and the breathing function. Skin irritation and coughing may result.

**SECTION 7 – HANDLING AND STORAGE**

**Environmental Precautions**

<b>Steps to be taken in case material is released or spilled</b>	Not applicable to PVC in pipe form. In pelletized, machined shavings, or off-cut form, sweep up and place in suitable container for disposal.
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**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Special Protection Information**

<b>Ventilation</b>	Mechanical (General) in areas of thermal processing.
<b>Respiratory protection</b>	Non-toxic nuisance dust mask may be advised in presence of heavy saw dusting.
<b>Protective Equipment</b>	Gloves and eye protection in areas involving molten PVC.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Special Precautions</b>	The installation of PVC conduit it may require primers and solvent cements. The end user must comply with all safety requirements recommended by the primer and solvent cement manufacturers. Avoid continued or prolonged breathing fumes emitted by these products.
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**SECTION 10 – STABILITY AND REACTIVITY**

<b>Stability</b>	Stable
<b>Hazardous Decomposition Products</b>	Carbon Monoxide, Hydrogen Chloride, Carbon Dioxide

<b>Hazardous Polymerization</b>	Will not occur
<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>	
No toxicological data is available for this finished product.	
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
PVC is inert. No known significant or critical hazards.	
<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
Landfill. PVC is an inert plastic material. No special disposal procedures are necessary other than complying with local, state, and federal regulations.	
<b>SECTION 14 – TRANSPORT INFORMATION</b>	
<b>Proper Shipping Name</b>	N/A
<b>Hazard Class</b>	Non-hazardous
<b>Shipping Label</b>	None required
<b>UN/NA Hazard Number</b>	Not required
<b>SECTION 15 – REGULATORY INFORMATION</b>	
N/A	
<b>SECTION 16 – OTHER INFORMATION</b>	
<b>Special Precautions</b>	
California Proposition 65 Statement – No chemicals used to manufacture CANTEX Inc. products are reportable under this law.	
<b>Disclaimer of Liability</b>	
The data contained herein are based on information that CANTEX believes to be true and accurate, but no expressed or implied warranty is made with regard to accuracy of such data or its suitability for a given situation. The information utilized in this document was collected from other SDS's with similar products.	

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>COMMON NAME:</b>	PVC Pipe and Fittings	
<b>CHEMICAL NAME:</b>	Not Applicable. Formulation, see section 3.	
<b>FORMULA:</b>	Mixture	
<b>PRODUCT CAS NO.:</b>	Mixture, see Section 3.	
<b>Recommended Use:</b>	Drain Waste Vent and Pressure Pipe and Fittings	
<b>SUPPLIER:</b>	Charlotte Pipe and Foundry Company (Plastics Division)	
<b>ADDRESS:</b>	4210 Old Charlotte Highway	
<b>CITY, STATE, ZIP:</b>	Monroe, NC 28110	
<b>PHONE:</b>	+1-704-372-3650	<b>EMERGENCY PHONE:</b> +1-704-372-3650

## 2. HAZARDS IDENTIFICATION



GHS Status	This material is hazardous in accordance with the hazard communication standard, 29 CFR 1910.1200
Classification of the substance or mixture	Skin irritation – Category 2 Eye irritation – Category 2A Carcinogenicity – Category 2B Specific target organ toxicity – single exposure – Category 3
GHS label pictogram	Warning
Signal word	Warning

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Hazard statements	Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Suspected of causing cancer. Route of exposure: inhalation of airborne unbound particles of respirable size.
Precautionary statements Prevention	Avoid breathing dust/fume/gas/mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective respiratory protection.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention.
Storage	Keep away from intense heat, flames. Store locked up.
Disposal	Dispose of in accordance with local regulations.
Hazards not otherwise classified	None known.
Relevant routes of exposure Inhalation	Skin, eyes, inhalation.  Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases and fumes may be given off during burning or thermal decomposition. Inhalation of airborne unbound particles of respirable size may cause cancer.
Skin contact	Gases and fumes evolved during thermal processing or decomposition can cause skin irritation.
Eye contact	Dust can cause eye irritation. Gases and fumes evolved during thermal processing or decomposition can cause eye irritation.
Ingestion	No data available.

### 3. HAZARDOUS INGREDIENTS: COMPOSITION/INFORMATION

INGREDIENT	CAS NUMBER	% WEIGHT
Polyvinyl chloride	9002-86-2	> 80%
Titanium dioxide	13463-67-7	0-5%

### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Consult a physician.

**SKIN CONTACT:** Rinse with water. Remove contaminated clothing and shoes. In the event of any complaints or symptoms,

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avoid further exposure. Wash clothing before reuse. Clean shoes before reuse.

**INHALATION:** If vapors from excessive heating, burning or decomposition products are inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing, such as collar, tie, belt, or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance.

**INGESTION:** Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing, such as collar, tie, belt, or waistband. Consult a physician.

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under surveillance for 48 hours.

Specific treatments: None known.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

FLASH POINT: No data.

Decomposition products may be combustible.

#### FLAMMABLE LIMITS:

LEL: No data

UEL: No data

**EXTINGUISHING MEDIA:** Water, foam, dry chemical. Do not use CO<sub>2</sub> on Class A fires, as a lack of cooling capacity may result in re-ignition.

**FIRE AND EXPLOSION HAZARDS:** Solid does not readily release flammable vapors. Thermoplastic polymers can burn. Smoke, Carbon Monoxide, Carbon Dioxide, Aldehydes, Hydrogen Chloride, Tin. Irritating and/or toxic substances will be emitted during burning, combustion, or decomposition. Run-off water from firefighting may have corrosive effects.

**PROTECTIVE MEASURES FOR FIRE FIGHTERS:** Firefighters must wear a NIOSH-approved, full-facepiece self-contained breathing apparatus (SCBA) operated in positive pressure mode and full turnout or bunker gear with additional chemical protective clothing as necessary to protect against thermal decomposition products.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** If there is a fire, promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training.

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### 6. ACCIDENTAL RELEASE MEASURES

#### EMERGENCY OVERVIEW

Toxic and irritating gases and fumes may be given off during burning or thermal decomposition. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### Personal precautions, protective equipment, and emergency measures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialized clothing is required to deal with decomposition products or fumes from burning or excessive heating, take note of information in Section 8 on suitable and unsuitable materials. See also information in "for non-emergency personnel."

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

#### Methods and materials for containment and cleanup

Small spill Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. See Section 1 for emergency contact information.

Large spill Move containers from spill area. Approach release from upwind. Prevent entry into sewers, waterways, basements, and confined areas. Avoid dust generation. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. See Section 1 for emergency contact information.

### 7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities Store in a dry place away from direct sunlight, heat, and incompatible materials. Avoid intense heat and flames.

#### Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8). Do not handle until all safety precautions have been read and understood. Do not get particles, vapors or fumes in eyes, on skin, or on clothing. Do not ingest. If during normal use, the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

Advice on general occupational hygiene Employees must wash hands and face before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT	CAS NUMBER	% WEIGHT	PEL-OSHA	TLV-ACGIH	NIOSH REL
Polyvinyl chloride	9002-86-2	> 80%	None established Particulates not otherwise classified: 15 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> (respirable fraction) Particulates not otherwise classified: 10 mg/m <sup>3</sup> (inhalable fraction)	None established
Titanium dioxide	13463-67-7	0-5%	15 mg/m <sup>3</sup> , total dust	10 mg/m <sup>3</sup> TWA	None established

**ENGINEERING CONTROLS:** If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below recommended and statutory limits.

**RESPIRATORY PROTECTION:** Cutting or sanding this product can generate dust. Used a properly fitted particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the respirator. A NIOSH-approved N95 single use or P95 multiple use respirator will protect the employee from at least 95% of airborne particles. Follow the respirator manufacturer's instructions for proper use. If adhesives or other substances are used with this product, refer to the product manufacturer's safety data sheet for applicable respiratory protective measures.

**SKIN PROTECTION:** Chemical-resistant, impervious gloves complying with an approved standard should be worn when handling this or any chemical product, if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures containing several substances, the protection time of the gloves cannot be accurately estimated. If adhesives or other substances are used with this product, refer to the product manufacturer's safety data sheet for applicable skin protective measures.

**BODY PROTECTION:** Personal protective equipment for the body should be selected on the task being performed and the risks involved, and should be approved by a specialist before handling this product. If adhesives or other substances are used with this product, refer to the product manufacturer's safety data sheet for applicable skin protective measures.

**EYE/FACE PROTECTION:** Safety eyewear complying with an approved standard must be used when a risk assessment indicates this is necessary to avoid exposure to dust. Particulates and dust can be formed when cutting, grinding or sanding this product. If contact with dust or particulates is possible, the following should be worn unless the assessment indicates a higher degree of protection: safety glasses with side shields. If adhesives or other substances are used with this product refer to the product manufacturer's safety data sheet for applicable eye and face protective measures.



## SAFETY DATA SHEET

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Solid. White/grey.
<b>ODOR:</b>	Not applicable
<b>ODOR THRESHOLD:</b>	Not available
<b>BOILING POINT:</b>	Not available
<b>FLASH POINT:</b>	Not applicable
<b>FLAMMABILITY:</b>	Melted product is flammable.
<b>AUTOIGNITION TEMPERATURE:</b>	Not applicable
<b>DECOMPOSITION TEMPERATURE:</b>	Not available
<b>LOWER/UPPER EXPLOSION LIMITS:</b>	Not available
<b>VAPOR PRESSURE:</b>	Not available
<b>LIQUID DENSITY:</b>	Not available
<b>SPECIFIC GRAVITY:</b>	Approximately 1.4
<b>MELTING POINT:</b>	Not available
<b>pH:</b>	Not available
<b>SOLUBILITY:</b>	Insoluble
<b>% VOLATILE:</b>	Not available
<b>VISCOSITY:</b>	Not available

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal temperatures and pressures.
<b>Reactivity:</b>	Stable at normal temperatures and pressures.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition.
<b>Incompatible materials/conditions:</b>	Consult the Charlotte Pipe and Foundry chemical resistance guide.
<b>Hazardous decomposition products:</b>	Hydrogen chloride, carbon oxides, small amounts of benzene and aromatic and aliphatic hydrocarbons, phosgene.
<b>Hazardous polymerization:</b>	Not available.

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** No toxicological data is available for the finished product.

**SENSITIZATION:** No data available.

**MUTAGENICITY:** No data available.

**DEVELOPMENTAL:** No data available.



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**FERTILITY:** No data available.

**CARCINOGENICITY:** Airborne unbound titanium dioxide particles of respirable size are classified by the International Agency for Research on Cancer (IARC) as 2B, possibly carcinogenic to humans. This product does not contain ingredients classified by the National Toxicology Program Report or OSHA at 29 CFR 1910, Subpart Z, as a carcinogen.

**REPRODUCTIVE TOXICITY:** Not available

**TERATOGENICITY:** Not available

**SPECIFIC TARGET ORGANS – SINGLE EXPOSURE:** Not available

**SPECIFIC TARGET ORGANS – REPEATED EXPOSURE:** Not available

**ASPIRATION HAZARD:** Not available

**INFORMATION ON THE LIKELY ROUTES OF EXPOSURE:**

**Potential acute health effects**

- Eye contact No known significant effects or critical hazards. Dust can cause eye irritation.
- Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact Skin irritant.
- Ingestion No known significant effects or critical hazards.

**Symptoms related to the physical, chemical, and toxicological characteristics**

- Eye contact No data available.
- Inhalation No data available.
- Skin contact Adverse symptoms may include irritation.
- Ingestion No data available.

**Immediate, delayed and chronic effects from short term exposure**

Short term exposure

- Potential immediate effects No data available.
- Potential delayed effects No data available.

Long term exposure

- Potential immediate effects No data available.
- Potential delayed effects No data available.

Potential chronic effects

- General No data available.
- Carcinogenicity Airborne unbound titanium dioxide particles of respirable size are classified as IARC 2B, possibly carcinogenic to humans. On the date of preparation of this SDS, this product did not contain ingredients listed by OSHA or NTP. See Section 11.

**12. ECOLOGICAL INFORMATION**

Numerical measures of toxicity No data available

Persistence and degradability  
Does not biodegrade over time.

Bioaccumulative potential  
No data available

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Mobility in soil  
No data available.

Other adverse effects: No known significant or critical hazards.

### 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste should not be disposed of to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste and packaging should be recycled when possible. Incineration or landfill should only be considered when recycling is not feasible. This material must be disposed of in a safe way.

### 14. TRANSPORT INFORMATION

<b>PROPER SHIPPING NAME:</b>	Not Regulated
<b>HAZARD CLASS:</b>	Not Regulated
<b>IDENTIFICATION NUMBER:</b>	Not Regulated
<b>SHIPPING LABEL:</b>	Not Regulated
<b>PACKING GROUP:</b>	Not Regulated

### 15. REGULATORY INFORMATION

United States

TSCA 8(b):  
All ingredients are listed on the U.S. Toxic Substances Control Act inventory.

This product can expose you to chemicals including titanium dioxide, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 16. OTHER INFORMATION

Date of Preparation: 20 April 2020

Key to Acronyms:

CAS:	Chemical Abstracts Service
CFR:	Code of Federal Regulations
HEPA	High-Efficiency Particulate Air (filter)
IARC:	International Agency for Research on Cancer
LD <sub>50</sub> :	Lethal dose to 50% of exposed laboratory animals
LC <sub>50</sub> :	Lethal concentration to 50% of exposed laboratory animals
LEL:	Lower Explosive Limit
mg/l:	Milligrams per liter
NIOSH:	National Institute for Occupational Safety and Health (US)
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration (US)
PEL:	Permissible Exposure Limit
TSCA:	Toxic Substances Control Act
TLV:	Threshold Limit Value – American Conference of Governmental Industrial Hygienists (ACGIH)
TWA:	Time Weighted Average
UEL:	Upper Explosive Limit

ug/m<sup>3</sup>:

Micrograms per cubic meter

**DISCLAIMER**

NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE FOR THE MATERIALS AS REPRESENTED IN THIS SDS SHEET. Charlotte Pipe and Foundry assumes no liability whatsoever for the use of or reliance upon this information. The information and data contained in this SDS has been compiled from information believed to be accurate and is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage, handling and disposal of the product in compliance with applicable federal, state, and local laws and regulations.



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016

Revision: 03/23/2016

## 1 Identification

- **Product identifier**
- **Trade name:** **860 ASTM Friction Tape**  
**822 Rubber Tape**
- **Product code:**  
860: 3/4 X 60' Friction Tape  
860B: BULK-3/4 X 60' Friction Tape  
822: 3/4 X 22' Rubber Tape
- **Recommended use and restriction on use**
- **Recommended use:** Electrical tape / Self-fusing insulating rubber tape
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
L.H. Dottie Company  
6131 Garfield Ave.  
Commerce, CA 90040  
(323) 725-1000
- **Emergency telephone number:**  
ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585


## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** This product does not have a classification according to the GHS regulation.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard-determining components of labeling:** Not applicable.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures

- **Components:**

1333-86-4	carbon black	 Carc. 2, H351	<3%
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- **Additional information:**

Non-classification as a carcinogen is based on non-respirable form of product.  
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.  
For the wording of the listed Hazard Statements refer to section 16.

(Cont'd. on page 2)



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**Trade name: 860 ASTM Friction Tape  
822 Rubber Tape**

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### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:** No relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** None.

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.

· **Environmental precautions:** No special measures required.

· **Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the collected material according to regulations.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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822 Rubber Tape**

See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

##### carbon black

PEL (USA)	Long-term value: 3.5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
EL (Canada)	Long-term value: 3 mg/m <sup>3</sup> IARC 2B
EV (Canada)	Long-term value: 3.5 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 3* mg/m <sup>3</sup> A3, *fracción inhalable

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Do not inhale dust / smoke / mist.  
Wash hands before breaks and at the end of work.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:** Not required under normal conditions of use.
- **Protection of hands:**  
Gloves are advised for repeated or prolonged contact.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.

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822 Rubber Tape**

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- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · Appearance:

· Form:	Solid
· Color:	Black
· Odor:	Slight
· Odor threshold:	Not determined.

· pH-value:	Not applicable.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not determined.
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· Auto-ignition temperature:	Not determined.
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· Decomposition temperature:	Not determined.
------------------------------	-----------------

· Auto igniting:	Product is not self-igniting.
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· Danger of explosion:	Product does not present an explosion hazard.
------------------------	---

##### · Explosion limits

· Lower:	Not determined.
· Upper:	Not determined.

· Oxidizing properties:	Not determined.
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· Vapor pressure:	Not determined.
-------------------	-----------------

· Density at 20 °C (68 °F):	1.26 g/cm <sup>3</sup> (10.515 lbs/gal)
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· Relative density:	Not determined.
---------------------	-----------------

· Vapor density:	Not applicable.
------------------	-----------------

· Evaporation rate:	Not applicable.
---------------------	-----------------

##### · Solubility in / Miscibility with

· Water:	Insoluble.
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· Partition coefficient (n-octanol/water):	Not determined.
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##### · Viscosity

· Dynamic:	Not applicable.
· Kinematic:	Not applicable.

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822 Rubber Tape**

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**Other information**

No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
To avoid thermal decomposition, do not overheat.
- **Possibility of hazardous reactions:** Reacts with strong acids and oxidizing agents.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.

**IARC (International Agency for Research on Cancer):**

1333-86-4 | carbon black

2B

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Probable route(s) of exposure:**

Ingestion.  
Eye contact.  
Skin contact.

- **Repeated dose toxicity:** No relevant information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:**

Contains known or suspect carcinogens when inhaled. Product is in non-inhalable form and is non-classifiable as a carcinogen.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

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822 Rubber Tape**

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

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### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Smaller quantities can be disposed of with household waste.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                     |                |
|-------------------------------------|----------------|
| · <b>UN-Number</b>                  |                |
| · <b>DOT, ADR, IMDG, IATA</b>       | Not regulated. |
| · <b>UN proper shipping name</b>    |                |
| · <b>DOT, ADR, IMDG, IATA</b>       | Not regulated. |
| · <b>Transport hazard class(es)</b> |                |
| · <b>DOT, ADR, IMDG, IATA</b>       |                |
| · <b>Class</b>                      | Not regulated. |
| · <b>Packing group</b>              |                |
| · <b>DOT, ADR, IMDG, IATA</b>       | Not regulated. |

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# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016

Revision: 03/23/2016

**Trade name: 860 ASTM Friction Tape  
822 Rubber Tape**

(Cont'd. of page 6)

- **Environmental hazards**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

Reference to Carbon Black is based on unbound respirable particles and is not generally applicable to product as supplied.

1333-86-4 | carbon black

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

1333-86-4 | carbon black

2B

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

1333-86-4 | carbon black

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**Trade name: 860 ASTM Friction Tape  
822 Rubber Tape**

(Cont'd. of page 7)

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 03/23/2016 / -

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Carc. 2: Carcinogenicity, Hazard Category 2

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date: 03/23/2016

Revision: 03/23/2016

## 1 Identification

- **Product identifier**
- **Trade name: PVC Tape**
- **Product code:**
  - 360: 3/4" X 60' X 7 Mil. Electrical Tape (Black)
  - 360BLU: 3/4" X 60' X 7 Mil. Electrical Tape (Blue)
  - 360BRN: 3/4" X 60' X 7 Mil. Electrical Tape (Brown)
  - 360GRN: 3/4" X 60' X 7 Mil. Electrical Tape (Green)
  - 360GRY: 3/4" X 60' X 7 Mil. Electrical Tape (Gray)
  - 360ORG: 3/4" X 60' X 7 Mil. Electrical Tape (Orange)
  - 360RED: 3/4" X 60' X 7 Mil. Electrical Tape (Red)
  - 360VLT: 3/4" X 60' X 7 Mil. Electrical Tape (Violet)
  - 360WHT: 3/4" X 60' X 7 Mil. Electrical Tape (White)
  - 360YEL: 3/4" X 60' X 7 Mil. Electrical Tape (Yellow)
- **Recommended use and restriction on use**
- **Recommended use:** Electrical Tape
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
  - L.H. Dottie Company
  - 6131 Garfield Ave.
  - Commerce, CA 90040
  - (323) 725-1000
- **Emergency telephone number:**
  - ChemTel Inc.
  - +1 (800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** This product does not have a classification according to the GHS regulation.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard-determining components of labeling:** Not applicable.
- **Hazard statements:** Not regulated.
- **Precautionary statements:** Not regulated.
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

(Cont'd. on page 2)



## Safety Data Sheet

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Trade name: PVC Tape

(Cont'd. of page 1)

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Components:** None in reportable quantities.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Unlikely route of exposure.  
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Brush off loose particles from skin.  
Clean with water and soap.  
If skin irritation is experienced, consult a doctor.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:** No relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose of the collected material according to regulations.

(Cont'd. on page 3)



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**Trade name: PVC Tape**

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**Reference to other sections:**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

**Handling**

- Precautions for safe handling:** No special measures required.
- Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities****Storage**

- Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility:** Store away from foodstuffs.
- Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s):** No relevant information available.

### 8 Exposure controls/personal protection

**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.

**Engineering controls:** No relevant information available.**Breathing equipment:**

Not required under normal conditions of use.  
Use respiratory protection when grinding or cutting material.

**Protection of hands:**

Not required under normal conditions of use.  
Gloves are advised for repeated or prolonged contact.

**Eye protection:** Follow OSHA or EU guidelines concerning the use of protective eyewear.**Body protection:** Not required under normal conditions of use.**Limitation and supervision of exposure into the environment** No special requirements.**Risk management measures** No special requirements.

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## Safety Data Sheet

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Trade name: PVC Tape

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### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · Appearance:

· Form:	Roll of tape
· Color:	Various colors
· Odor:	Slight
· Odor threshold:	Not determined.

· pH-value:	Not applicable.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.

· Flash point:	Not applicable.
----------------	-----------------

· Flammability (solid, gaseous):	Not determined.
----------------------------------	-----------------

· Auto-ignition temperature:	Not determined.
------------------------------	-----------------

· Decomposition temperature:	Not determined.
------------------------------	-----------------

· Auto igniting:	Product is not self-igniting.
------------------	-------------------------------

· Danger of explosion:	Product does not present an explosion hazard.
------------------------	---

##### · Explosion limits

· Lower:	Not determined.
· Upper:	Not determined.

· Oxidizing properties:	Not determined.
-------------------------	-----------------

· Vapor pressure:	Not determined.
-------------------	-----------------

· Density:	1.21 g/cm <sup>3</sup> (10.097 lbs/gal)
------------	---

· Relative density:	Not determined.
---------------------	-----------------

· Vapor density:	Not applicable.
------------------	-----------------

· Evaporation rate:	Not applicable.
---------------------	-----------------

##### · Solubility in / Miscibility with

· Water:	Insoluble.
----------	------------

· Partition coefficient (n-octanol/water):	Not determined.
--	-----------------

##### · Viscosity

· Dynamic:	Not applicable.
· Kinematic:	Not applicable.

· Other information	No relevant information available.
---------------------	------------------------------------

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.

(Cont'd. on page 5)





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- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Excessive heat.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Chlorine compounds

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.

**IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NTP (National Toxicology Program):**

None of the ingredients are listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**Probable route(s) of exposure:**

Ingestion.  
Eye contact.  
Skin contact.

- **Repeated dose toxicity:** No relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** No relevant information available.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Generally not hazardous for water

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Smaller quantities can be disposed of with household waste.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Not regulated.  |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Not regulated.  |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Not regulated.  |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Not regulated.  |
| · <b>Environmental hazards</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

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**Trade name: PVC Tape**

(Cont'd. of page 6)

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

**Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act)**

All ingredients are listed.

**Proposition 65 (California)****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Carcinogenic categories****EPA (Environmental Protection Agency):**

None of the ingredients are listed.

**IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

**Canadian substance listings****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 03/23/2016 / -

**Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor-internet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:  
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Website: [www.chemtelinc.com](http://www.chemtelinc.com)

## Carbon, Alloy, and Stainless Forgings and Pipe Fittings Safety Data Sheet (SDS)

### Section 1 – Identification

**1(a) Product Identifier Used on Label:** Carbon, Alloy and Stainless Forgings and Pipe Fittings

**1(b) Other Means of Identification:** Machined and Unmachined Forgings and Pipe Fittings

**1(c) Recommended Use of the Chemical and Restrictions on Use:** None

**1(d) Name, Address, and Telephone Number:**

Westbrook Manufacturing                      Phone number: 713-675-6438  
1111 Lockwood Dr.  
Houston TX 77020



**1(e) Emergency Phone Number:** 713-675-6438

### Section 2 – Hazard(s) Identification

**2(a) Classification of the chemical:** Carbon, Alloy and Stainless Forgings and Pipe Fittings are considered an article under Reach regulation (REACH REGULATION (EC) No 1907/2006) and is not subject to classification under CLP regulation (REGULATION (EC) No 1272/2008). However, Carbon, Alloy and Stainless Forgings and Pipe Fittings are not exempt as an article under OSHA's Hazard Communication Standard (29 CFR 1910.1200) due to its downstream use, thus this product is considered a mixture and a hazardous material. Therefore, the categories of Health Hazards as defined in the "GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), Third revised edition ST/SG/AC.10/30/Rev. 3" United Nations, New York and Geneva, 2009 have been evaluated.

**Note: Carbon, Alloy and Stainless Forgings and Pipe Fittings in the natural state do not present air inhalation, ingestion, or contact health hazards. However, operations such as welding, burning, sawing, brazing, grinding, and other processes which elevate the temperature of the product to or above its melting point or result in the generation of airborne particles may present hazards. These operations should be performed in well-ventilated areas.**

**2(b) Signal word, hazard statement(s), symbols and precautionary statement(s):**

Hazard Symbol	Hazard Classification	Signal Word	Hazard Statement(s)
	Carcinogenicity - 2 Reproductive Toxicity - 2 Single Target Organ Toxicity (STOT) Repeat Exposure - 1	<b>Danger</b>	Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure. Harmful if swallowed. May cause an allergic skin reaction. Harmful in contact with skin. May cause respiratory irritation. Causes eye irritation.
	Acute Toxicity-Oral - 4 Skin Sensitization - 1 STOT Single Exposure - 3		
NA	Eye Irritation - 2B		

**Precautionary Statement(s):**

Prevention	Response	Storage/Disposal
Do not breathe dusts / fume / gas / mist / vapor / spray. Wear protective gloves / protective clothing / eye protection / face protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in well ventilated areas. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.	If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed, concerned or feel unwell: Get medical advice/attention. If in eyes: Rinse with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. If on skin: Wash with plenty of water. If irritation or rash occurs: Get medical advice/attention. Take off and wash contaminated clothing before reuse. Call a poison center/doctor if you feel unwell.	Dispose of contents in accordance with federal, state and local regulations.

**2(c) Hazards not otherwise classified:** None Known

**2(d) Unknown acute toxicity statement (mixture):** None Known

## Section 3 – Composition/Information on Ingredients

### 3(a-c) Chemical name, common name (synonyms), CAS number and other identifiers, and concentration:

Chemical Name	CAS Number	% weight
Iron	7439-89-6	>50 - 99.9
Aluminum	7429-90-5	0.10-100
Carbon	7440-44-0	0.01-1.5
Chromium	7440-47-3	0.01-27
Cobalt	744-48-4	8 max
Copper	7440-50-8	0.04-100
Lead	7439-92-1	0.15-0.35
Manganese	7439-96-5	0.05-2
Molybdenum	7439-98-7	0.01-1.10
Nickel	7440-02-0	0.01-22
Phosphorous	7723-14-0	0.16 max
Silicon	7440-21-3	0.15-2.20
Sulfur	7704-34-9	0.001-0.35
Tungsten	7440-33-7	0-18
Vanadium	7440-62-2	0.01-1.0
Zinc coating	1314-13-2	10.002 max

Note: Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts. Forgings may have phosphate conversion coating, the elements of which are included in the ingredients, and rust protection oil. Fittings may also contain plastic or rubber components. Product surfaces may be treated with small amounts of corrosion-inhibiting oil that may contain mineral oil or petroleum distillates, or paints, epoxies, laminates, etc., generally applied at the customer's request. Refer to the coating manufacturer's SDS for hazards associated with coatings. Refer to Mill Report for specific element composition.

## Section 4 – First-aid Measures

### 4(a) Description of necessary measures:

- **Inhalation: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not a likely form of exposure. However during further processing (welding, grinding, burning, etc.), if inhaled: Remove person to fresh air, if condition continues: Get medical advice/attention.
- **Eye Contact: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not a likely form of exposure. However during further processing (welding, grinding, burning, etc.), if in eyes: Rinse with water or eyewash solution for 15 minutes. If eye irritation persists: Get medical advice attention.
- **Skin Contact:** If on skin: Wash thoroughly after handling. Wash with plenty of water. If irritation or rash occurs: Get medical advice/attention. Take off and wash contaminated clothing before reuse.
- **Ingestion: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not a likely form of exposure. However during further processing (welding, grinding, burning, etc.), if swallowed: Get medical advice/attention.

### 4(b) Most important symptoms/effects, acute and delayed (chronic):

- **Inhalation: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not likely to present an acute or chronic health effect.
- **Eye: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not likely to present an acute or chronic health effect.
- **Skin: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not likely to present an acute or chronic health effect.
- **Ingestion: Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not likely to present an acute or chronic health effect.

However during further processing (welding, grinding, burning, etc.) individual components may illicit an acute or chronic health effect. Refer to Section 11-Toxicological Information.

### 4(c) Immediate Medical Attention and Special Treatment: None Known

## Section 5 – Fire-fighting Measures

**5(a) Suitable (and unsuitable) Extinguishing Media:** Not Applicable for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped. Use extinguishers appropriate for surrounding materials.

**5(b) Specific Hazards arising from the chemical:** Not Applicable for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped. When burned, toxic smoke, fume and vapor may be emitted.

## Section 6 – Accidental Release Measures

**6(a) Personal Precautions, Protective Equipment and Emergency Procedures:** Not Applicable for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped. For spills involving finely divided particles, clean up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust.

**6(b) Methods and materials for containment and clean up:** Not Applicable for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped. Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations.

## Section 7 – Handling and Storage

**7(a) Precautions for safe handling:** Not Applicable for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped, however further processing (welding, burning, grinding, etc.) with potential for generating high concentrations of airborne particles should be evaluated and controlled as necessary. Do not handle until all safety precautions have been read and understood. Use only outdoors or in well ventilated areas. Practice good housekeeping. Avoid breathing metal fumes and/or dust. Do not eat, drink, or smoke when using this product. Cut resistant gloves and sleeves should be worn when working with steel products. Use lifting, and work devices, e.g., crane, hoist, etc., within rated capacities and in accordance with manufacturers' instructions when handling these products.

**7(b) Conditions for safe storage, including any incompatibilities:** Store away from acids and incompatible materials.

## Section 8 – Exposure Controls/Personal Protection

**8(a) Occupational Exposure Limits (OEL):** **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped in its physical form does not present an inhalation, ingestion, or contact hazard, nor would any of the following exposure data apply. However, operations such as burning, welding (high temperature), sawing, brazing, machining, grinding, etc. may produce fumes and/or particulates. The following exposure limits are offered for reference for an experienced industrial hygienist to review.

Chemical Name	CAS Number	OSHA PEL (mm/m <sup>3</sup> ) TABLE Z-1
Iron	7439-89-6	
Aluminum	7429-90-5	Total Dust 15; Respirable Fraction 5
Carbon	7440-44-0	None Listed
Chromium	7440-47-3	0.5
Cobalt	744-48-4	Dust and Fumes 0.1
Copper	7440-50-8	Dusts and Mists 1; Fumes 0.1
Lead	7439-92-1	Dust and Fume: 0.05
Manganese	7439-96-5	Dust and Fumes 5
Molybdenum	7439-98-7	Soluble Compounds 5; Insoluble Compounds Total Dust 15
Nickel	7440-02-0	1
Phosphorous	7723-14-0	0.1
Silicon	7440-21-3	Total Dust 15; Respirable Fraction 5
Sulfur	7704-34-9	As Sulfur Dioxide 13
Tungsten	7440-33-7	None Listed
Vanadium	7440-62-2	Dust 0.5; Fumes 0.1
Zinc coating	1314-13-2	Total Dust 15; Respirable Fraction 5; Fumes 5

**8(b) Appropriate Engineering Controls:** Use controls as appropriate to minimize exposure to metal fumes and dusts during handling operations. Provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust is necessary for use in enclosed or confined spaces. Provide sufficient general/local exhaust ventilation to control inhalation exposure below current exposure limits.

**8(c) Individual Protection Measures:**

- **Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA Respirator Regulations (29 CFR 1910.134) and if necessary use only a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen.
- **Eyes:** Wear appropriate eye protection to prevent eye contact. Use safety glasses or goggles as required for welding, burning, sawing, brazing, grinding, or machining operations.
- **Skin:** Wear appropriate personal protective clothing to prevent skin contact. Cut resistant gloves and sleeves should be worn when working with steel products. For operations which result in elevating the temperature of the product to or above its melting point or result in the generation of airborne particles, use protective clothing and gloves to prevent skin contact. Contaminated work clothing must be removed prior to leaving the workplace and laundered appropriately.

## Section 9 – Physical and Chemical Properties

<b>9(a) Appearance:</b> Solid Gray/Black with Metallic Luster	<b>9(j) Upper/lower Flammability or Explosive Limits:</b> NA
<b>9(b) Odor:</b> Odorless	<b>9(k) Vapor Pressure:</b> NA
<b>9(c) Odor Threshold:</b> NA	<b>9(l) Vapor Density (Air-1):</b> NA
<b>9(d) pH:</b> NA	<b>9(m) Relative Density:</b> Not Determined
<b>9(e) Melting Point:</b> 2750 F (steel); 1220 F (Al); 1981 F (Cu); 1823 F (Brass)	<b>9(n) Solubility:</b> Insoluble
<b>9(f) Initial Boiling Point and Boiling Range:</b> Not Determined	<b>9(o) Partition Coefficient n-octanol/water:</b> Not Determined
<b>9(g) Flash Point:</b> NA	<b>9(p) Auto-ignition Temperature:</b> NA
<b>9(h) Evaporation Rate:</b> NA	<b>9(q) Decomposition Temperature:</b> Not Determined
<b>9(i) Flammability (solid,gas):</b> Non-flammable, Non-combustible	<b>9(r) Viscosity:</b> NA

## Section 10 – Stability and Reactivity

**10(a) Reactivity:** Not determined for product in a solid form. Do not use water on molten metal.

**10(b) Chemical Stability:** Steel products are stable under normal storage and handling conditions.

**10(c) Possibility of Hazardous Reaction:** Not Known

**10(d) Conditions to Avoid:** Storage with strong acids or calcium hypochlorite.

**10(e) Incompatible Materials:** Will react with strong acids to form hydrogen.

**10(f) Hazardous Decomposition Products:** Thermal oxidative decomposition of steel products can produce fumes containing oxides of iron and manganese as well as other alloying elements.

## Section 11 – Toxicological Information

**11(a-e) Information on Toxicological Effects:** The following toxicity data has been determined for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** when further processed by methods including welding, burning, grinding, etc. with potential for generating high concentrations of airborne particles and fumes. The toxicity data includes information about the various ingredients that make up the product. Note: **Carbon, Alloy and Stainless Forgings and Pipe Fittings in the natural state do not present air inhalation, ingestion, or contact health hazards and therefore the following toxicological information would not apply to the product as shipped/sold.**

### Acute Effects:

- **Inhalation:** Excessive exposure to high concentrations of metal dust may cause irritation to the eyes, skin, and mucous membranes of the upper respiratory tract. Excessive inhalation of fumes of freshly formed metal oxide particles sized below 1.5 micrometer from many metals can produce an acute reaction known as “metal fume fever”. Symptoms consist of chills and fever, metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain. The symptoms come in a few hours after excessive exposures and usually last from 12-48 hours. Long term effects from metal fume fever have not been noted.
- **Eye:** Excessive exposure to high concentrations of metal dust and fumes may cause irritation to the eyes.
- **Skin:** Skin contact with metal dusts may cause irritation or sensitization, possibly leading to dermatitis. Skin contact with metallic fumes and dusts may cause physical abrasion.
- **Ingestion:** Ingestion of harmful amounts of this product as shipped/sold is unlikely due to its solid insoluble form. Ingestion of metal dust may cause nausea or vomiting.

### Acute Effects by Component:

- **Iron and Iron Oxides:** Iron is harmful if swallowed, causes skin and eye irritation. Contact with iron oxide has been reported to cause skin irritation and serious eye damage.
- **Chromium, Chromium Oxides, and Hexavalent Chrome:** Hexavalent chrome causes damage to the gastrointestinal tract, lung, severe skin burns, and serious eye damage. Skin contact may cause an allergic reaction. Inhalation may cause allergic or asthmatic symptoms or breathing difficulties.
- **Manganese and Manganese Oxides:** Manganese and Manganese Oxide are harmful if swallowed.
- **Molybdenum and Molybdenum Oxides:** Molybdenum causes skin and eye irritation. Molybdenum oxide is toxic if swallowed.
- **Nickel and Nickel Oxides:** Nickel and Nickel Oxides may cause allergic skin sensitization.

### Delayed (chronic) Effects by Component:

- **Iron and Iron Oxides:** Inhalation of excessive concentrations of ferric oxide may enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens.
- **Chromium, Chromium Oxides, and Hexavalent Chrome:** The metal form (chromium as it exists in this product) is of low toxicity. The hexavalent form is very toxic. Industrial exposure to certain forms of hexavalent chromium has been related to an increased incidence of cancer. Hexavalent chromium may cause genetic defects and is suspected of damaging the unborn child. Developmental toxicity in the mouse and is suspected of damaging fertility.
- **Manganese and Manganese Oxides:** Chronic exposure to high concentrations of manganese fumes and dusts may adversely affect the central nervous system with symptoms including sleepiness, weakness, emotional disturbances, mask like facial expression, and paralysis. Occupational overexposure is progressive. May cause damage to lungs with repeated or prolonged exposure. Coordination of motor functions may become impaired.
- **Molybdenum and Molybdenum Oxides:** Some reports indicate that the dust of molybdenum metal, molybdenum dioxide, and molybdenum trioxide may cause eye, skin, nose, and throat irritation in animals. Molybdenum oxide is suspected of causing cancer in humans.
- **Nickel and Nickel Oxides:** Exposure to nickel dusts and fumes can cause sensitization dermatitis, respiratory irritation, asthma, pulmonary fibrosis, edema, and may cause nasal or lung cancer in humans. Nickel causes damage to lungs through prolonged or repeated inhalation exposure. Nickel is suspected of damaging the unborn child.



## Section 12 – Ecological Information

**12(a) Ecotoxicity (Aquatic & Terrestrial):** No data available for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped.

**12(b) Persistence & Degradability:** No data available for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped.

**12(c) Bioaccumulative Potential:** No data available for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped.

**12(d) Mobility (in soil):** No data available for **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped. Individual components of the product have been found to be absorbed by plants from soil.

**12(e) Other Adverse Effects:** None known

## Section 13 – Disposal Considerations

**Note: The following information is for Carbon, Alloy and Stainless Forgings and Pipe Fittings sold in its original form. Any alterations can void this information.**

**Disposal:** Steel scrap should be recycled whenever possible. Product dust and fumes from processing operations should also be recycled, or classified by a competent environmental professional and disposed of in accordance with applicable federal, state, and/or local regulations.

## Section 14 – Transport Information

**14(a-g) Suitable (and unsuitable) Transportation Information:**

- **US Department of Transportation (DOT):** under 49 CFR 172.101 does not regulate **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as a hazardous material. All federal, state, and local laws and regulations that apply to the transport of this type of material must be adhered to.
- **International Maritime Dangerous Goods (IMDG) and Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID):** classification, packaging, and shipping requirements follow the US DOT Hazardous Materials Regulation.
- **Regulations Concerning the International Carriage of Dangerous Goods by Road (ADR):** does not regulate **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as a hazardous material.
- **International Air Transport Association (IATA):** does not regulate **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as a hazardous material.
- **Transport Dangerous Goods (TDG) Classifications:** **Carbon, Alloy and Stainless Forgings and Pipe Fittings** does not have a TDG classification.

## Section 15 – Regulatory Information

**Regulatory Information:** **Carbon, Alloy and Stainless Forgings and Pipe Fittings** as sold/shipped is not a regulated product by OSHA or EPA. However, individual components of the product are listed in various state regulations:

**California Prop 65:**

**WARNING:** This product contains a chemical known to the state of California to cause cancer and/or reproductive toxicity. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Note: Carbon, Alloy and Stainless Forgings and Pipe Fittings in the natural state do not present air inhalation, ingestion, or contact health hazards. However, operations such as welding, burning, sawing, brazing, grinding, and other processes which elevate the temperature of the product to or above its melting point or result in the generation of airborne particles may present hazards.

Note: Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts. Forgings may have phosphate conversion coating, the elements of which are included in the ingredients, and rust protection oil. Refer to Mill Test Report for specific element composition.

**California Prop 65 -CRT: Carcinogenic Substance/Listed Date:**

CARBON BLACK (CAS 1333-86-4)	Listed: February 21, 2003
CHROMIUM (CAS 7440-47-3)	Listed: February 27, 1987
COBALT (CAS 744-48-4)	Listed: July 01, 1992
LEAD (CAS 7439-92-1)	Listed: October 01, 1992
NICKEL (CAS 7440-02-0)	Listed: October 01, 1989

## Section 16 – Other Information

SDS Revision: 8/22/2018

### Additional Information:

#### Hazardous Material Identification System (HMIS) Classification

Health Hazard	1
Fire Hazard	0
Physical Hazard	0

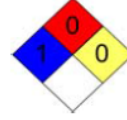
HEALTH= 1, Denotes possible chronic hazard if airborne dusts or fumes are generated. Irritation or minor reversible injury possible.

FIRE= 0, Materials that will not burn

PHYSICAL HAZARD= 0, Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

**Disclaimer:** The information in this SDS was obtained from sources that we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume any responsibility and expressly disclaim liability for loss, damage, and expense arising out of or in any way connected with the handling, storage, use, or disposal of the product.

#### National Fire Protection Association (NFPA)



HEALTH = 1, Exposure could cause irritation but only minor residual injury even if no treatment is given.

FLAMMABILITY = 0, Materials that will not burn

INSTABILITY = 0, Normally stable, even under fire exposure conditions, and are not reactive with water.

**Common Name:** SCRUBBING TOWELS

**Manufacturer:** GOJO INDUSTRIES

**SDS Revision Date:** 2/10/2015

**SDS Format:** GHS-US

**Item Number(s):** 2DHD4, 2FPN1, 31HJ74, 31HJ75, 31HJ76, 31HJ77

**Manufacturer Model  
Number(s):**

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SAFETY DATA SHEET

GOJO (R\*)

GOJO (R\*) SCRUBBING TOWELS

VERSION: 1.1

REVISION DATE: 02/10/2015

MSDS NUMBER: 37214-00002

DATE OF LAST ISSUE: 12/16/2014

DATE OF FIRST ISSUE: 12/16/2014

## **SECTION 1. IDENTIFICATION**



PRODUCT NAME: GOJO (R\*) SCRUBBING TOWELS

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY NAME OF SUPPLIER: GOJO INDUSTRIES, INC.

ADDRESS:

ONE GOJO PLAZA, SUITE 500  
AKRON, OH 44311

TELEPHONE: 1 (330) 255-6000

EMERGENCY TELEPHONE: 1-800-424-9300 CHEMTREC

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: SKIN-CARE

RESTRICTIONS ON USE:

THIS IS A PERSONAL CARE OR COSMETIC PRODUCT THAT IS SAFE FOR CONSUMERS AND OTHER USERS UNDER NORMAL AND REASONABLY FORESEEABLE USE. COSMETICS AND CONSUMER PRODUCTS, SPECIFICALLY DEFINED BY REGULATIONS AROUND THE WORLD, ARE EXEMPT FROM THE REQUIREMENT OF AN SDS FOR THE CONSUMER. WHILE THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, THIS SDS CONTAINS VALUABLE INFORMATION CRITICAL TO THE SAFE HANDLING AND PROPER USE OF THE PRODUCT FOR INDUSTRIAL WORKPLACE CONDITIONS AS WELL AS UNUSUAL AND UNINTENDED EXPOSURES SUCH AS LARGE SPILLS. THIS SDS SHOULD BE RETAINED AND AVAILABLE FOR EMPLOYEES AND OTHER USERS OF THIS PRODUCT. FOR SPECIFIC INTENDED-USE GUIDANCE, PLEASE REFER TO THE INFORMATION PROVIDED ON THE PACKAGE OR INSTRUCTION SHEET.

## **SECTION 2. HAZARDS IDENTIFICATION**



GHS CLASSIFICATION:

EYE IRRITATION: CATEGORY 2A

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS: EXCLAMATION MARK

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H319: CAUSES SERIOUS EYE IRRITATION.

PRECAUTIONARY STATEMENTS:

PREVENTION:

P264: WASH SKIN THOROUGHLY AFTER HANDLING.

P280: WEAR EYE PROTECTION/FACE PROTECTION.

RESPONSE:

P305 + P351 + P338:

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P337 + P313:

IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

OTHER HAZARDS: NONE KNOWN.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



SUBSTANCE / MIXTURE: MIXTURE

HAZARDOUS INGREDIENTS:

CHEMICAL NAME	CAS-NO.	CONCENTRATION (%)
ETHOXYLATED LAURYL ALCOHOL	9002-92-0	>=1 - <5
FRAGRANCE - ORANGE WIPES	NOT ASSIGNED	>=0.1 - <1

### SECTION 4. FIRST AID MEASURES



GENERAL ADVICE:

IN THE CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY.

WHEN SYMPTOMS PERSIST OR IN ALL CASES OF DOUBT SEEK MEDICAL ADVICE.

IF INHALED:

IF INHALED, REMOVE TO FRESH AIR.

GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF SKIN CONTACT:

WASH WITH WATER AND SOAP AS A PRECAUTION.

GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF EYE CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

IF EASY TO DO, REMOVE CONTACT LENS, IF WORN.

GET MEDICAL ATTENTION.

IF SWALLOWED:

IF SWALLOWED, DO NOT INDUCE VOMITING.

GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

RINSE MOUTH THOROUGHLY WITH WATER.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

CAUSES SERIOUS EYE IRRITATION.

PROTECTION OF FIRST-AIDERS:

FIRST AID RESPONDERS SHOULD PAY ATTENTION TO SELF-PROTECTION, AND USE THE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT WHEN THE POTENTIAL FOR EXPOSURE EXISTS.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

## **SECTION 5. FIRE-FIGHTING MEASURES**



SUITABLE EXTINGUISHING MEDIA:

WATER SPRAY

ALCOHOL-RESISTANT FOAM

DRY CHEMICAL

CARBON DIOXIDE (CO<sub>2</sub>)

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS DURING FIRE FIGHTING:

EXPOSURE TO COMBUSTION PRODUCTS MAY BE A HAZARD TO HEALTH.

HAZARDOUS COMBUSTION PRODUCTS:

CARBON OXIDES

NONE KNOWN.

SPECIFIC EXTINGUISHING METHODS:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

REMOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT IS SAFE TO DO SO.

EVACUATE AREA.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS.

USE PERSONAL PROTECTIVE EQUIPMENT.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:  
USE PERSONAL PROTECTIVE EQUIPMENT.  
FOLLOW SAFE HANDLING ADVICE AND PERSONAL PROTECTIVE EQUIPMENT  
RECOMMENDATIONS.

ENVIRONMENTAL PRECAUTIONS:

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

PREVENT SPREADING OVER A WIDE AREA (E.G. BY CONTAINMENT OR OIL BARRIERS).

RETAIN AND DISPOSE OF CONTAMINATED WASH WATER.

LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE  
CONTAINED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

SOAK UP WITH INERT ABSORBENT MATERIAL.

FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP  
MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED  
MATERIAL IN APPROPRIATE CONTAINER.

CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBENT.

LOCAL OR NATIONAL REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS  
MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF  
RELEASES. YOU WILL NEED TO DETERMINE WHICH REGULATIONS ARE APPLICABLE.

SECTIONS 13 AND 15 OF THIS SDS PROVIDE INFORMATION REGARDING CERTAIN LOCAL  
OR NATIONAL REQUIREMENTS.

## **SECTION 7. HANDLING AND STORAGE**



TECHNICAL MEASURES:

SEE ENGINEERING MEASURES UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION  
SECTION.

LOCAL/TOTAL VENTILATION: USE ONLY WITH ADEQUATE VENTILATION.

ADVICE ON SAFE HANDLING:

AVOID INHALATION OF VAPOR OR MIST.  
DO NOT SWALLOW.

DO NOT GET IN EYES.  
AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.  
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.  
TAKE CARE TO PREVENT SPILLS, WASTE AND MINIMIZE RELEASE TO THE ENVIRONMENT.

CONDITIONS FOR SAFE STORAGE:  
KEEP IN PROPERLY LABELED CONTAINERS.  
STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS.

MATERIALS TO AVOID:  
DO NOT STORE WITH THE FOLLOWING PRODUCT TYPES: STRONG OXIDIZING AGENTS

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**



INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS:  
CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

HAZARDOUS COMPONENTS WITHOUT WORKPLACE CONTROL PARAMETERS:

INGREDIENTS	CAS-NO.
ETHOXYLATED LAURYL ALCOHOL	9002-92-0
FRAGRANCE - ORANGE WIPES	NOT ASSIGNED

ENGINEERING MEASURES:  
ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS.  
MINIMIZE WORKPLACE EXPOSURE CONCENTRATIONS.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:  
NO PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT NORMALLY REQUIRED.

HAND PROTECTION:

MATERIAL: IMPERVIOUS GLOVES

REMARKS:  
CHOOSE GLOVES TO PROTECT HANDS AGAINST CHEMICALS DEPENDING ON THE CONCENTRATION SPECIFIC TO PLACE OF WORK. BREAKTHROUGH TIME IS NOT DETERMINED FOR THE PRODUCT. CHANGE GLOVES OFTEN! FOR SPECIAL APPLICATIONS, WE RECOMMEND CLARIFYING THE RESISTANCE TO CHEMICALS OF THE AFOREMENTIONED PROTECTIVE GLOVES WITH THE GLOVE MANUFACTURER. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

EYE PROTECTION:  
WEAR THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT: SAFETY GOGGLES

SKIN AND BODY PROTECTION:  
SELECT APPROPRIATE PROTECTIVE CLOTHING BASED ON CHEMICAL RESISTANCE DATA AND



AN ASSESSMENT OF THE LOCAL EXPOSURE POTENTIAL. SKIN CONTACT MUST BE AVOIDED BY USING IMPERVIOUS PROTECTIVE CLOTHING (GLOVES, APRONS, BOOTS, ETC).

HYGIENE MEASURES:

ENSURE THAT EYE FLUSHING SYSTEMS AND SAFETY SHOWERS ARE LOCATED CLOSE TO THE WORKING PLACE. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH CONTAMINATED CLOTHING BEFORE RE-USE.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE: LIQUID

COLOR: CLEAR, COLORLESS TO PALE YELLOW

ODOR: CITRUS

ODOR THRESHOLD: NO DATA AVAILABLE

PH: 6.0 - 8.5

MELTING POINT/FREEZING POINT: NO DATA AVAILABLE

INITIAL BOILING POINT AND BOILING RANGE: NO DATA AVAILABLE

FLASH POINT: >100 DEG. C

EVAPORATION RATE: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

UPPER EXPLOSION LIMIT: NO DATA AVAILABLE

LOWER EXPLOSION LIMIT: NO DATA AVAILABLE

VAPOR PRESSURE: NO DATA AVAILABLE

RELATIVE VAPOR DENSITY: NO DATA AVAILABLE

DENSITY: 1.00 G/CM<sup>3</sup>

SOLUBILITY (IES):

WATER SOLUBILITY: SOLUBLE

PARTITION COEFFICIENT N-OCTANOL/WATER: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE:

THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED SELF-REACTIVE.

VISCOSITY:

VISCOSITY, DYNAMIC: NO DATA AVAILABLE

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE

OXIDIZING PROPERTIES:  
THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS OXIDIZING.

## **SECTION 10. STABILITY AND REACTIVITY**



REACTIVITY: NOT CLASSIFIED AS A REACTIVITY HAZARD.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: CAN REACT WITH STRONG OXIDIZING AGENTS.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE MATERIALS: OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:  
NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

## **SECTION 11. TOXICOLOGICAL INFORMATION**



INFORMATION ON LIKELY ROUTES OF EXPOSURE:  
INHALATION  
SKIN CONTACT  
INGESTION  
EYE CONTACT

ACUTE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

ACUTE ORAL TOXICITY:  
ACUTE TOXICITY ESTIMATE: >5,000 MG/KG  
METHOD: CALCULATION METHOD

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

ACUTE ORAL TOXICITY:  
LD50 (RAT): >500 - 2,000 MG/KG  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE INHALATION TOXICITY:  
LC50 (RAT): >1.6 MG/L  
EXPOSURE TIME: 4 H  
TEST ATMOSPHERE: DUST/MIST

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE DERMAL TOXICITY:

LD50 (RAT): >2,000 MG/KG

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

SKIN CORROSION/IRRITATION:

NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

RESULT: NO SKIN IRRITATION

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

SPECIES: RABBIT

RESULT: NO SKIN IRRITATION

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

FRAGRANCE - ORANGE WIPES:

RESULT: MILD SKIN IRRITATION

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES SERIOUS EYE IRRITATION.

PRODUCT:

RESULT: IRRITATION TO EYES, REVERSING WITHIN 21 DAYS

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

SPECIES: RABBIT

RESULT: IRREVERSIBLE EFFECTS ON THE EYE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

FRAGRANCE - ORANGE WIPES:

RESULT: IRRITATION TO EYES, REVERSING WITHIN 7 DAYS

RESPIRATORY OR SKIN SENSITIZATION:

SKIN SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

RESPIRATORY SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

ASSESSMENT: DOES NOT CAUSE SKIN SENSITIZATION.

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

TEST TYPE: MAXIMIZATION TEST (GPMT)

ROUTES OF EXPOSURE: SKIN CONTACT

SPECIES: GUINEA PIG

METHOD: OECD TEST GUIDELINE 406

RESULT: NEGATIVE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

FRAGRANCE - ORANGE WIPES:

ASSESSMENT: PROBABILITY OR EVIDENCE OF SKIN SENSITIZATION IN HUMANS

GERM CELL MUTAGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

GENOTOXICITY IN VITRO:

TEST TYPE: BACTERIAL REVERSE MUTATION ASSAY (AMES)

METHOD: OECD TEST GUIDELINE 471

RESULT: NEGATIVE

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

CARCINOGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

IARC:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

OSHA:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

REPRODUCTIVE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

STOT-SINGLE EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

FRAGRANCE - ORANGE WIPES:

ASSESSMENT: MAY CAUSE RESPIRATORY IRRITATION.

STOT-REPEATED EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

ASPIRATION TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

## **SECTION 12. ECOLOGICAL INFORMATION**



ECOTOXICITY:

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

TOXICITY TO FISH:  
LC50 (DANIO RERIO (ZEBRA FISH)): >1 - 10 MG/L  
EXPOSURE TIME: 96 H  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:  
EC50 (DAPHNIA MAGNA (WATER FLEA)): >1 - 10 MG/L  
EXPOSURE TIME: 48 H  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES (CHRONIC TOXICITY):  
NOEC (DAPHNIA MAGNA (WATER FLEA)): >0.1 - 1 MG/L  
EXPOSURE TIME: 21 D  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

PERSISTENCE AND DEGRADABILITY:

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

BIODEGRADABILITY:  
RESULT: RAPIDLY DEGRADABLE  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

BIOACCUMULATIVE POTENTIAL:

INGREDIENTS:

ETHOXYLATED LAURYL ALCOHOL:

BIOACCUMULATION:  
SPECIES: FISH  
BIOCONCENTRATION FACTOR (BCF): <500  
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

## **SECTION 13. DISPOSAL CONSIDERATIONS**



DISPOSAL METHODS:

WASTE FROM RESIDUES: DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSE OF AS UNUSED PRODUCT.

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR

RECYCLING OR DISPOSAL.

## SECTION 14. TRANSPORT INFORMATION



INTERNATIONAL REGULATION:

UNRTDG: NOT REGULATED AS A DANGEROUS GOOD

IATA-DGR: NOT REGULATED AS A DANGEROUS GOOD

IMDG-CODE: NOT REGULATED AS A DANGEROUS GOOD

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:  
NOT APPLICABLE FOR PRODUCT AS SUPPLIED.

DOMESTIC REGULATION:

49 CFR: NOT REGULATED AS A DANGEROUS GOOD

## SECTION 15. REGULATORY INFORMATION



EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW:

CERCLA REPORTABLE QUANTITY:

THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A CERCLA RQ.

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:

THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 304 EHS RQ.

SARA 311/312 HAZARDS: ACUTE HEALTH HAZARD

SARA 302:

NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF  
SARA TITLE III, SECTION 302.

SARA 313:

THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS  
NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED  
BY SARA TITLE III, SECTION 313.

US STATE REGULATIONS:

PENNSYLVANIA RIGHT TO KNOW:

WATER 7732-18-5 90 - 100%

ETHOXYLATED LAURYL ALCOHOL 9002-92-0 1 - 5%

NEW JERSEY RIGHT TO KNOW:

WATER	7732-18-5	90 - 100%
ETHOXYLATED LAURYL ALCOHOL	9002-92-0	1 - 5%
POLYETHYLENE GLYCOL SORBITAN MONOLAURATE	9005-64-5	1 - 5%

CALIFORNIA PROP 65:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS.

THE INGREDIENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:  
AICS: ALL INGREDIENTS LISTED OR EXEMPT.

INVENTORIES:

AICS (AUSTRALIA), DSL (CANADA), IECSC (CHINA), REACH (EUROPEAN UNION), ENCS (JAPAN), ISHL (JAPAN), KECI (KOREA), NZIOC (NEW ZEALAND), PICCS (PHILIPPINES), NECSI (TAIWAN), TSCA (USA)

## SECTION 16. OTHER INFORMATION



FURTHER INFORMATION:

NFPA:

HEALTH	2
FLAMMABILITY	1
INSTABILITY	0

SPECIAL HAZARD.

HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = NOT SIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

4 = EXTREME

\* = CHRONIC

SOURCES OF KEY DATA USED TO COMPILE THE MATERIAL SAFETY DATA SHEET:  
INTERNAL TECHNICAL DATA, DATA FROM RAW MATERIAL SDSS, OECD ECHEM PORTAL SEARCH RESULTS AND EUROPEAN CHEMICALS AGENCY, [HTTP://ECHA.EUROPA.EU/](http://ECHA.EUROPA.EU/)

REVISION DATE: 02/10/2015

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