

# Safety Data Sheet

## NEOGARD

### 7760 EPOXY PRIMER PART 1



Conforms to ANSI Z400.1-2010 Standard - HCS 2012

Protective Clothing	General Hazard	DOT

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : NEOGARD  
EPOXY PRIMER PART 1

Product identity : 2510957930, 7760

Product type : epoxy primer (base for multi-component product)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Field of application : buildings and metal industry.

Ready-for-use mixture : Mixing Ratio:  
25100 = 25109 1 Vol. / 95054 1 Vol.

Identified uses : Industrial/Professional use

TSCA : **Unless otherwise stated All components are listed or exempted.**

### 1.3 Details of the supplier of the safety data sheet

Company details : NEOGARD, a Division of Hempel (USA), Inc.  
2728 Empire Central  
Dallas, TX 75235  
1-214-353-1600  
E-mail: [hempel@hempel.com](mailto:hempel@hempel.com)

Distributed By:  
Distribué Par:  
Polysource Industries Inc.  
#1 - 19725 Telegraph Trail  
Langley, BC V1M 3E6  
Tel: (877) 986-8688

### 1.4 Emergency telephone number (with hours of operation)

For Transportation Emergencies : CHEMTREC: **1-800-424-9300** (Toll-free in the U.S., Canada and the U.S. Virgin Islands) **703-527-3887**  
(24 hours)  
For calls originating elsewhere (Collect calls are accepted). Contract number: CCN10384  
To preserve the effectiveness of arrangements for providing accurate and timely emergency response information, the basic identifying information (shipper name or contract number) must be included on shipping papers.  
If the purchaser of this product is going to be shipping this product to other locations, the purchaser must arrange for its own Emergency Information Provider to respond to transport incidents. Hempel's 24 hour response contract does not cover non-Hempel shipments.

For all other information : Hempel (USA), Inc. : 1-214-353-1600  
(8 AM - 5 PM CST) See Section 4 of the safety data sheet (first aid measures).

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification : FLAMMABLE LIQUIDS - Category 2  
SKIN CORROSION - Category 1B  
SERIOUS EYE DAMAGE - Category 1  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

### 2.2 Label elements

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## NEOGARD

### 7760 EPOXY PRIMER PART 1



#### SECTION 2: Hazards identification

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H225 - Highly flammable liquid and vapor.  
 H314 - Causes severe skin burns and eye damage.  
 H317 - May cause an allergic skin reaction.  
 H351 - Suspected of causing cancer.  
 H336 - May cause drowsiness or dizziness.  
 H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Precautionary statements :

Prevention :

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response :

Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage :

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

Disposal :

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements :

None known.

#### 2.3 Other hazards

Hazards not otherwise classified : None known.

#### SECTION 3: Composition/information on ingredients

Product definition :

Mixture

Physical state :

Liquid.

Product/ingredient name	Identifiers	%	GHS Classification
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine isopropanol	68082-29-1	≥25 - ≤50	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
	67-63-0	≥25 - ≤50	
xylene	1330-20-7	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
ethylbenzene	100-41-4	≥1 - ≤3	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 ASPIRATION HAZARD - Category 1
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	≥1 - ≤3	SKIN CORROSION - Category 1B



**SECTION 3: Composition/information on ingredients**

triethylenetetramine	112-24-3	≥1 - ≤3	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1
3-Aminopropyltriethoxysilane	919-30-2	≥1 - ≤3	SKIN SENSITIZATION - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	≥1 - ≤3	Not classified.
4,4',4''-(1-methylpropanyl-3-ylidene)tris [6-tert-butyl-m-cresol]	1843-03-4	≤0.3	SKIN SENSITIZATION - Category 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  
 If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).
- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
- Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and get medical attention immediately.
- Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**4.2 Most important symptoms and effects, both acute and delayed**

**Potential acute health effects**

- Eye contact : Causes serious eye damage.
- Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact : Causes severe burns. May cause an allergic skin reaction.
- Ingestion : Can cause central nervous system (CNS) depression.

**Over-exposure signs/symptoms**

- Eye contact : Adverse symptoms may include the following:  
 pain  
 watering  
 redness
- Inhalation : Adverse symptoms may include the following:  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness
- Skin contact : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur



#### **SECTION 4: First aid measures**

Ingestion : Adverse symptoms may include the following:  
stomach pains

##### **4.3 Indication of any immediate medical attention and special treatment needed**

Notes to physician : If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed.

Specific treatments : No specific treatment.

#### **SECTION 5: Firefighting measures**

##### **5.1 Extinguishing media**

Extinguishing media : Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used: waterjet.

##### **5.2 Special hazards arising from the substance or mixture**

Hazards from the substance or mixture : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

##### **5.3 Advice for firefighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### **SECTION 6: Accidental release measures**

##### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

##### **6.2 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). Water polluting material. May be harmful to the environment if released in large quantities.

##### **6.3 Methods and materials for containment and cleaning up**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

##### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.



**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

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

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

This product may be applied using several application techniques and methods of handling may be different for each. Application techniques include [but are not limited to] brushing, rolling, and spray application [conventional, HPLV, airless, pleural component or aerosol can]. Avoid the breathing of vapors and, if spraying, do not breath spray mist or aerosols.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Product/ingredient name	Exposure limit values
isopropanol	<p><b>ACGIH TLV (United States, 3/2015).</b>                      STEL: 400 ppm 15 minutes.                      TWA: 200 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b>                      STEL: 1225 mg/m<sup>3</sup> 15 minutes.                      STEL: 500 ppm 15 minutes.                      TWA: 980 mg/m<sup>3</sup> 10 hours.                      TWA: 400 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b>                      TWA: 980 mg/m<sup>3</sup> 8 hours.                      TWA: 400 ppm 8 hours.</p>
xylene	<p><b>ACGIH TLV (United States, 3/2015).</b>                      STEL: 651 mg/m<sup>3</sup> 15 minutes.                      STEL: 150 ppm 15 minutes.                      TWA: 434 mg/m<sup>3</sup> 8 hours.                      TWA: 100 ppm 8 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b>                      TWA: 435 mg/m<sup>3</sup> 8 hours.                      TWA: 100 ppm 8 hours.</p>
ethylbenzene	<p><b>ACGIH TLV (United States, 3/2015).</b>                      TWA: 20 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b>                      STEL: 545 mg/m<sup>3</sup> 15 minutes.                      STEL: 125 ppm 15 minutes.                      TWA: 435 mg/m<sup>3</sup> 10 hours.                      TWA: 100 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b>                      TWA: 435 mg/m<sup>3</sup> 8 hours.                      TWA: 100 ppm 8 hours.</p>
triethylenetetramine	<p><b>AIHA WEEL (United States, 10/2011). Absorbed through skin.</b>                      TWA: 1 ppm 8 hours.</p>
Iron oxide (Fe2O3)	<p><b>NIOSH REL (United States, 10/2013).</b>                      TWA: 5 mg/m<sup>3</sup>, (as Fe) 10 hours. Form: Dust and fumes</p> <p><b>ACGIH TLV (United States, 3/2015).</b>                      TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p><b>OSHA PEL (United States, 2/2013).</b>                      TWA: 10 mg/m<sup>3</sup> 8 hours.</p>



## SECTION 8: Exposure controls/personal protection

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide local exhaust and general ventilation systems to maintain airborne concentrations below OSHA, ACGIH, and manufacturer recommended exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into work areas by controlling it at its source. Use local and general exhaust ventilation to effectively remove and prevent buildup of mists/vapors/fumes generated from the handling of this product.

Note: Local exhaust ventilation is designed to capture an emitted contaminant at or near its source, before the contaminant has a chance to disperse into the workplace air. General exhaust ventilation, also called dilution ventilation, is different from local exhaust ventilation because instead of capturing emissions at their source and removing them from the air, general exhaust ventilation allows the contaminant to be emitted into the workplace air and then dilutes the concentration of the contaminant to an acceptable level (e.g., to the PEL or below).

#### Individual protection measures

- General : Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.
- Hygiene measures : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Hand protection : Wear chemical-resistant gloves in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.
- Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:
- Recommended: Silver Shield / 4H gloves, Viton®  
May be used: polyvinyl alcohol (PVA), nitrile rubber, neoprene rubber, butyl rubber  
Short term exposure: natural rubber (latex), polyvinyl chloride (PVC)
- Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.
- Wear suitable protective clothing. Always wear protective clothing when spraying.
- Respiratory protection : If working areas have insufficient ventilation, wear half or totally covering mask equipped with gas filter of type Organic Vapor, when grinding use particle filter of type P95, P99 or P100. When spraying use a combined filter (organic vapor / HEPA or organic vapor / P100 type). Be sure to use approved/certified respirator or equivalent. Always wear an air-fed respirator when spraying in a continuous and prolonged work situation (e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter).
- This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.**

Protective clothing (pictograms) :



Note: Application of paint products by spraying requires additional safety precautions: Full body suit, Full face respirator with air supplied.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state :	Liquid.
Color :	Tile Red
Odor :	Solvent-like
pH :	Testing not relevant or not possible due to nature of the product.
Melting point/freezing point :	Testing not relevant or not possible due to nature of the product.
Boiling point/boiling range :	Testing not relevant or not possible due to nature of the product.
Flash point :	Closed cup: 15°C (59°F)
Evaporation rate :	Testing not relevant or not possible due to nature of the product.
Flammability :	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.
Upper/lower flammability or explosive limits :	0.8 - 12 vol %
Vapor pressure :	0.01 kPa This is based on data for the following ingredient: polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine
Vapor density :	Testing not relevant or not possible due to nature of the product.
Relative density :	0.91 g/cm <sup>3</sup>
Solubility(ies) :	Easily soluble in the following materials: cold water and hot water.
Partition coefficient (LogKow) :	Testing not relevant or not possible due to nature of the product.
Auto-ignition temperature :	Testing not relevant or not possible due to nature of the product.
Decomposition temperature :	Testing not relevant or not possible due to nature of the product.
Viscosity :	Testing not relevant or not possible due to nature of the product.
Explosive properties :	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Oxidizing properties :	Testing not relevant or not possible due to nature of the product.

### 9.2 Other information

Solvent(s) % by weight (Included exempt solvent(s)):	42.4 % (w/w)
Water % by weight :	Weighted average: 0 %
VOC content (Coatings) :	3.22 lbs/gal (385.6 g/l)
VOC content (Regulatory) :	3.22 lbs/gal (385.7 g/l)
TOC Content (Volatile) :	Weighted average: 260 g/l
Solvent Gas :	Weighted average: 0.127 m <sup>3</sup> /l

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.



**SECTION 10: Stability and reactivity**

**10.5 Incompatible materials**

Extremely reactive or incompatible with the following materials: acids.  
 Highly reactive or incompatible with the following materials: oxidizing materials.  
 Reactive or incompatible with the following materials: reducing materials and organic materials.

**10.6 Hazardous decomposition products**

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:  
 Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.  
 Direct contact with the eyes can cause irreversible damage, including blindness.

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
isopropanol	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Intraperitoneal	Rabbit	667 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	LDLo Oral	Human	3570 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	6350 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2,4,6-tris(dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
triethylenetetramine	LD50 Oral	Rat	2169 mg/kg	-
	LD50 Dermal	Rabbit	550 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-
3-Aminopropyltriethoxysilane	LD50 Dermal	Rabbit	4.29 g/kg	-
	LD50 Oral	Rat	1.57 g/kg	-
4,4',4''-(1-methylpropanyl-3-ylidene) tris[6-tert-butyl-m-cresol]	LD50 Oral	Rat	14000 mg/kg	-

**Acute toxicity estimates**

Route	ATE value
Oral	23819.8 mg/kg
Dermal	8531 mg/kg
Inhalation (gases)	36984.6 ppm
Inhalation (vapors)	82.99 mg/l

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-
	isopropanol	Eyes - Moderate irritant	Rabbit	-
xylene	Skin - Mild irritant	Rabbit	-	500 milligrams
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
ethylbenzene	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams
2,4,6-tris(dimethylaminomethyl)	Respiratory - Mild irritant	Rabbit	-	-
	Eyes - Mild irritant	Rabbit	-	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms





**SECTION 11: Toxicological information**

phenol	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams
triethylenetetramine	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams
3-Aminopropyltriethoxysilane	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms
	Skin - Severe irritant	Rabbit	-	24 hours 5 milligrams

**Sensitizer**

Product/ingredient name	Route of exposure	Species	Result
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitizing
	skin	Guinea pig	Sensitizing

**Carcinogen Classification**

Product/ingredient name	IARC	NTP	OSHA
isopropanol	3	-	-
xylene	3	-	-
ethylbenzene	2B	-	-
Iron oxide (Fe2O3)	3	-	-

**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
isopropanol	Category 3	Not applicable.	Narcotic effects

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

**Aspiration hazard**

Product/ingredient name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure**

Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential chronic health effects**

Sensitization : Contains polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine, triethylenetetramine. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Do not allow to enter drains or watercourses. Toxic to aquatic life with long lasting effects.

When spilled, this product may act as an oil, causing a film, sheen, emulsion, or sludge at or beneath the surface of a body of water. Oils of any kind can cause: (a) drowning of waterfowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility; (b) lethal effect on fish by coating gill surfaces, preventing respiration; (c) potential fish kills resulting from alteration in biochemical oxygen demand; (d) asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom; and (e) adverse aesthetic effects of fouled shoreline and beaches.



**SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	Acute EC50 4.34 mg/l	Algae	72 hours
ethylbenzene 2,4,6-tris(dimethylaminomethyl) phenol	Acute EC50 7.07 mg/l Acute LC50 7.07 mg/l Chronic NOEC <1000 µg/l Fresh water	Daphnia Fish	48 hours 96 hours
	Acute EC50 84 mg/l	Algae - Pseudokirchneriella subcapitata Algae	96 hours 72 hours
triethylenetetramine	Acute LC50 175 mg/l	Fish	96 hours
	Acute EC50 20 mg/l	Algae	72 hours
	Acute EC50 31.1 mg/l	Daphnia	48 hours
	Acute LC50 330 mg/l	Fish	96 hours

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
xylene ethylbenzene 2,4,6-tris(dimethylaminomethyl) phenol	-	>60 % - Readily - 28 days	-	-
	-	>70 % - Readily - 28 days	-	-
	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
2,4,6-tris(dimethylaminomethyl) phenol	-	-	Not readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	10.34	-	high
isopropanol	0.05	-	low
xylene	3.12	8.1 - 25.9	low
ethylbenzene	3.6	-	low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	low
triethylenetetramine	-1.66 - -1.4	-	low
3-Aminopropyltriethoxysilane	1.7	3.4	low

**12.4 Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>): No known data available in our database.

Mobility: No known data available in our database.

**12.5 Other adverse effects**

No known significant effects or critical hazards.



**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7 and Section 8 for additional handling information and protection of employees.














The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Toxic hazardous waste "U" List**

Ingredient	CAS #	Status	Reference number
Xylene	1330-20-7	Listed	U239

**SECTION 14: Transport information**

Transport may take place according to national regulation or DOT for transport by road and by train, IMDG for transport by sea, IATA for Air shipment. Refer to specific Dangerous Goods Transport requirements under 49CFR, ICAO and IATA.

	14.1 UN no.	14.2 Proper shipping name	14.3 Transport hazard class(es)	14.4 PG*	14.5 Env*	14.5 Additional information
<b>DOT Code</b>	UN3469	PAINT, FLAMMABLE, CORROSIVE. (polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine)	3 8   	II	Yes.	The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes.  <u>Reportable quantity</u> (xylene, ethylbenzene) 878.26 lbs / 398.73 kg [115.75 gal / 438.17 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
<b>TDG Code</b>	UN3469	PAINT, FLAMMABLE, CORROSIVE. (polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine)	3 8   	II	Yes.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).  The marine pollutant mark is not required when transported by road or rail.
<b>SCT Code</b>	UN3469	PAINT, FLAMMABLE, CORROSIVE	3 8  	II	No.	-
<b>IMDG Code</b>	UN3469	PAINT, FLAMMABLE, CORROSIVE. (polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine)	3 8   	II	Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  <u>Emergency schedules (EmS)</u> F-E, S-C
<b>IATA Code</b>	UN3469	PAINT, FLAMMABLE, CORROSIVE	3 8  	II	No.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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#### SECTION 14: Transport information

Code : Classification  
 PG\* : Packing group  
 Env.\* : Environmental hazards

#### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

#### SECTION 15: Regulatory information

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : All components are listed or exempted.  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 307:** ethylbenzene  
**Clean Water Act (CWA) 311:** ethylbenzene; xylene  
**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) :** Listed

Product/ingredient name	CAS number	Concentration
ethylbenzene	100-41-4	2.4994
xylene	1330-20-7	11.386
1,4-dioxane	123-91-1	0.001584

**Clean Air Act Section 602 Class I Substances :** Not listed

**Clean Air Act Section 602 Class II Substances :** Not listed

**DEA List I Chemicals (Precursor Chemicals) :** Not listed

**DEA List II Chemicals (Essential Chemicals) :** Not listed

**SARA 302/304 - SARA 311/312:** **SARA 302/304:** chlorine  
**SARA 311/312 Hazards identification:** Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Product/ingredient name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
polymer of C18-unsatd. fatty acids dimers with tall-oil fatty acids and triethylenetetramine	25 - 50	No.	No.	No.	Yes.	No.
isopropanol	25 - 50	Yes.	No.	No.	Yes.	No.
xylene	10 - 25	Yes.	No.	No.	Yes.	No.
ethylbenzene	1 - 3	Yes.	No.	No.	Yes.	Yes.
2,4,6-tris(dimethylaminomethyl)phenol	1 - 3	No.	No.	No.	Yes.	No.
triethylenetetramine	1 - 3	No.	No.	No.	Yes.	No.
3-Aminopropyltriethoxysilane	1 - 3	No.	No.	No.	Yes.	No.
4,4',4''-(1-methylpropanyl-3-ylidene)tris [6-tert-butyl-m-cresol]	0.1 - 0.5	No.	No.	No.	Yes.	No.

**SARA 313 :** SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### Form R - Reporting requirements :

Product/ingredient name	CAS number	Concentration
isopropanol	67-63-0	20 - 50
xylene	1330-20-7	10 - 20
ethylbenzene	100-41-4	1 - 3

#### Supplier notification :

Product/ingredient name	CAS number	Concentration
isopropanol	67-63-0	20 - 50
xylene	1330-20-7	10 - 20
ethylbenzene	100-41-4	1 - 3

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#### SECTION 15: Regulatory information

##### State regulations :

**Connecticut Carcinogen Reporting:** None of the components are listed.  
**Connecticut Hazardous Material Survey:** None of the components are listed.  
**Florida substances:** None of the components are listed.  
**Illinois Chemical Safety Act:** None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.  
**Louisiana Reporting:** None of the components are listed.  
**Louisiana Spill:** None of the components are listed.  
**Massachusetts Spill:** None of the components are listed.  
**Massachusetts Substances:** The following components are listed: ISOPROPYL ALCOHOL; ETHYL BENZENE; XYLENE; TRIETHYLENETETRAMINE; IRON OXIDE DUST  
**Michigan Critical Material:** None of the components are listed.  
**Minnesota Hazardous Substances:** None of the components are listed.  
**New Jersey Hazardous Substances:** The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL; ETHYL BENZENE; BENZENE, ETHYL-; XYLENES; BENZENE, DIMETHYL-; TRIETHYLENE TETRAMINE; 1,2-ETHANEDIAMINE, N,N'-BIS(2-AMINOETHYL)-; IRON OXIDE; FERRIC OXIDE  
**New Jersey Spill:** None of the components are listed.  
**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.  
**New York Acutely Hazardous Substances:** The following components are listed: Ethylbenzene; Xylene (mixed)  
**New York Toxic Chemical Release Reporting:** None of the components are listed.  
**Pennsylvania RTK Hazardous Substances:** The following components are listed: 2-PROPANOL; BENZENE, ETHYL-; BENZENE, DIMETHYL-; 1,2-ETHANEDIAMINE, N,N'-BIS(2-AMINOETHYL)-; IRON OXIDE (FE2O3)  
**Rhode Island Hazardous Substances:** None of the components are listed.

##### California Prop. 65 PFF :

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

Product/ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
respirable quartz	Yes.	No.	No.	No.
1,4-dioxane	Yes.	No.	Yes.	No.

#### SECTION 16: Other information

##### Remarks :

Note: In USA, consult Code of Federal Regulations, Title 29, Labor, Parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable Federal, State or local regulations that apply to safe practices in coating operations.  
 Warning! If you scrape, sand, or remove old paint, you may release lead dust. LEAD is TOXIC.

##### Validation :

Validated by US - HSE Products Coordinator on 27 May 2016

##### GHS Classification

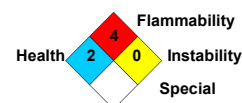
Procedure used to derive the classification.

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Hazardous Material Information System (U.S.A.)

Health	* 3
Fire hazard	3
Physical hazards	0
Personal protection	X

National Fire Protection Association (U.S.A.)



Personal Protective Equipment (PPE) shown in this section is a suggestion. Since conditions vary from one work location to another consult the facility safety & health program. Customer or end user is responsible to evaluate worker exposure conditions at the site of application and determine the appropriate PPE suitable for workers at that particular facility or location.

Abbreviations and acronyms :

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#### SECTION 16: Other information

ANSI = American National Standards Institute  
HCS = Hazardous Communication System  
TSCA = Toxic Substances Control Act  
CFR = Code of federal Regulations  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
OSHA = United States Occupational Health and Safety Administration  
NIOSH = National Institute for Occupational Safety and Health  
ACGIH = American Conference of Industrial Hygienists  
IARC = International Agency for Research on Cancer.  
NTP = National Toxicology Program  
ATE = Acute Toxicity Estimate

OECD = Organisation for Economic Co-operation and Development  
BCF = Bioconcentration Factor  
DOT = United States Department of Transportation  
ERG = Emergency Response Guide  
TDG = Transport of Dangerous Goods, Canada  
SCT = Transportation & Communications Ministry, Mexico  
IMDG = International Maritime Dangerous Goods  
IATA = International Air Transport Association  
SARA = Superfund Amendments Reauthorization Act  
EPCRA = Emergency Planning and Community Right to Know Act

#### Notice to reader

 Indicates information that has changed from previously issued version.

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*