



Safety Data Sheet

RF 1591BF A (UL 94-VO)

Section 1. Identification

Product Identifier RF 1591BF A (UL 94-VO)
Synonyms Epoxy resin
Manufacturer Stock
Numbers N/A

Recommended use Epoxy Resin
Uses advised against N/A

Manufacturer Contact

Address Resin Formulators
18027 Bishop Avenue
Carson, CA, 90746
USA

Phone
(310) 204-6159

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(310) 202-7247

Email
sales@evroberts.com

Website
<http://www.evroberts.com>

Section 2. Hazards Identification

Classification ACUTE TOXICITY - DERMAL - Category 4
ACUTE TOXICITY - ORAL - Category 5
CARCINOGENICITY - Category 2
EYE DAMAGE/IRRITATION - Category 2A
Signal Word Warning

Pictogram



Hazard Statements

Causes serious eye irritation
Harmful in contact with skin
May be harmful if swallowed
Suspected of causing cancer.

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin: Wash with plenty of water/ ...
Specific treatment (see ... on this label)
Take off immediately all contaminated clothing and wash it before reuse.

Prevention

Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wash ...thoroughly after handling.
Wear eye protection/face protection.
Wear protective Butyl Gloves, Face Shield, Eye Bath and Safety Shower.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store locked up.

Disposal

Dispose of contents/container to ...
Spill Response Procedures: May burn although not readily ignitable. Use cautious judgment when cleaning up large spills.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

Eye contact

Based on similar product testing product may be severely irritating to the eyes. May cause corneal damage.

Skin contact

Based on human experience, component is extremely irritating to the skin and may cause skin damage. Based on human experience, component is a skin sensitizer. Based on presence of component product may be toxic if absorbed.

Inhalation

Based on human experience, component may cause irritation of the respiratory tract. Based on component testing, product may produce central nervous system (CNS) depression. Although no specific information is known. Based on skin sensitization experience in humans, component may also be a respiratory tract sensitizer (see signs and symptoms). Because of its low volatility, however, significant exposure by the inhalation route is unlikely under most ambient conditions. But vapors, aerosol, and mists may be formed during some applications. Based on component testing, product may be moderately toxic and may be harmful if inhaled.

Ingestion

Based on similar product testing, product may be slightly toxic. Based on the presence of component, product may cause CNS depression.

Signs/Symptoms of Exposure

Irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives. Respiratory tract sensitization (e.g., allergy, asthma) may be evidenced by wheezing with shortness of breath and cough. Early to moderate CNS depression may be evidenced by giddiness. Headache, dizziness, and nausea; in extremem cases, unconsciousness and death may occur.

Aggravated Medical Condition

Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product. Preexisting skin or respiratory tract allergies may increase the chance of developing increased allergy symptoms from exposure to this product.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25068-38-6	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	>30 %
21645-51-2	Aluminum trihydrate	>20 %
1332-07-6	Boric acid, zinc salt	<5 %
1309-64-4	Antimony trioxide	<5 %
7631-86-9	Fumed Silica	<5 %
1163-19-5	Decabromodiphenyl oxide	<15 %
2426-08-6	Oxirane, (butoxymethyl)-	<10 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye Contact

Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists repeat flushing and obtain medical attention IMMEDIATELY.

Skin Contact

Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Slightly Toxic: Do NOT give liquids if victim is unconscious or drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30 cc (2 tablespoons) syrup of IPECAC. If IPECAC is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Refer person to medical personnel for immediate attention.

Notes To Physician

* If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of Ipecac. If symptoms such as a loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Flash Point:
164°F (setaflash)

Flammable Limits (Lower):
Not Available

Flammable Limits (Upper):
Not Available

Suitable Extinguishing Media:
Use dry chemical, CO₂, water spray (fog) or foam.

Special Fire Fighting Procedures:
Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Combustible.
Unusual Fire and Explosion Hazards:
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Unsuitable Extinguishing Media N/A

Section 6. Accidental Release Measures

CAUTION

CAUTION! COMBUSTIBLE. ****LARGE SPILLS**** Eliminate potential sources of ignition. Wear appropriate respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers and seal tightly for proper disposal. Flush area with water to remove trace residue; Dispose of flush solution as above.

Small Spills

Soak up small spills with absorbant material and place in labeled containers for recovery or disposal.

Section 7. Handling and Storage

Handling

Put on appropriate personal protective equipment (see section 8). Do not eat, drink or smoke when using this product. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid breathing of vapors or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperatures in bulk.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	N/A	none	N/A
	Aluminum trihydrate	N/A	N/A	N/A
	Boric acid, zinc salt	N/A	N/A	N/A
	Antimony trioxide	N/A	N/A	N/A
	Fumed Silica	N/A	10 mg/m3, TLV-TWA, Inhalation	N/A
	Decabromodiphenyl oxide	N/A	N/A	N/A
	Oxirane, (butoxymethyl)-	Time Weighted Average (TWA) OSHA Z1, PEL 50 ppm, 270 mg/m3, OSHA Z1A, PEL 25 ppm, 135 mg/m3	N/A	N/A

**Personal Protective Equipment
Respiratory Protection**

Goggles, Gloves, Face Shield, CHEMICAL GOGGLES, PROTECTIVE CLOTHING, VENTILATION, EYE WASH AND SAFETY SHOWER

Avoid breathing vapors which may be produced under some conditions such as heating or applications of uncured material in large surface areas (e.g., flooring and painting). Avoid breathing aerosols and mists which may be formed by various methods of applications. If exposure may or does exceed occupational exposure limits, use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either a full-face, atmosphere-supplying respirator or air-purifying respirator for organic vapors.

Protective Clothing

Avoid contact with eyes. Wear safety goggles as appropriate. Wear chemical resistant clothing as required to minimize contact

Additional Protective Measures

Use explosion-proof ventilation as required to control vapor concentrations. Provide readily accessible eye wash stations and safety showers for emergency use.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Black
Odor	characteristic odor

Odor Threshold	N/A
Solubility	Negligible
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1.35
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	164°F
FP Method	setaflash
pH	N/A
Melting Point	N/A
Boiling Point	N/A
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Will not occur
Conditions and Materials to Avoid	Avoid heat, flame and contact with strong oxidizing agents. Can react vigorously with strong lewis or mineral acids and strong mineral and organic bases/especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat.
Hazardous Decomposition Products	Carbon monoxide, aldehydes and acids may be formed during combustion. Reaction with some curing agents may produce considerable heat.

Section 11. Toxicological Information

Toxicity Data	<p>Bisphenol A diglycidyl ether: LD50 Oral - Rat - 30,000 mg/kg LD50 Dermal - Rat - >1,200 mg/kg</p> <p>Butyl glycidyl ether: LD50 Oral - Rat - 1,660 mg/kg LD50 Inhalation - Rat - 1,530 ppm/8 h LD50 Dermal - Rabbit - >2,150 mg/kg</p> <p>Decabromodphenyl oxide: LD50 Oral - Rat - >5,000 mg/kg LD50 Inhalation - Rat - >50 mg/L</p>
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LD50 Dermal - Rabbit - >2,000 mg/kg

Antimony trioxide:
LD50 Oral - Rat - 7,000 mg/kg

Antimony trioxide, Decabromodiphenyl oxide and Butyl glycidyl ether are classified as A2 (human suspect carcinogens) by ACGIH.

Section 12. Ecological Information

Ecological Information	No data available.
Environmental effects	Antimony trioxide and Decabromodiphenyl oxide are toxic and may persist in the environment

Section 13. Disposal

Environmental Release Information	Keep out of surface waters, sewers and waterways entering or leading to surface waters. Notify authorities if any exposure to the general public or environment occurs or is likely to occur.
Waste Disposal Method	Place in an appropriate disposal facility in compliance with local regulations.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	N/A
DOT Classification	N/A
Packing Group	N/A
Disclaimer	The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.
International Transport Regulations	Regulatory Information: CFR, TDG, IMO/IMDG, and IATA are not regulated by D.O.T. for this product if in a container of 119 gallon capacity or less.

Section 15. Regulatory Information

HCS Classification	Toxic material, Corrosive material, Sensitizing material, Target organ effects
U.S. Federal Regulations	SARA 311/312 CLASSIFICATION: Immediate (acute) health hazard. Delayed (chronic) health hazard, Fire hazard SARA 313 - SUPPLIER NOTIFICATION: This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. None Required SARA 302 EXTREMELY HAZARDOUS SUBSTANCES: None required

California Prop. 65
Components

Federal Regulations: None Listed
State Regulations: None Listed
International Regulations: None Listed

This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16. Other Information

Revision Date

3/27/2018

HMIS Rating (Not
Regulated)

The HMIS Rating for this product is:
Health: 2* Flammability: 1 Reactivity: 1

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

Disclaimer

The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. It is not intended to constitute performance information concerning the product. No warranty, expressed or implied, or merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.



Safety Data Sheet

RF 1591BF B (UL 94-VO)

Section 1. Identification

Product Identifier RF 1591BF B (UL 94-VO)
Synonyms N/A
Manufacturer Stock Numbers N/A

Recommended use Polyamine resin
Uses advised against N/A

Manufacturer Contact

Address Resin Formulators
18027 Bishop Avenue
Carson, CA, 90746
USA

Phone (310) 204-6159 Emergency Phone (800) 424-9300 Fax (310) 202-7247
CHEMTREC

Email sales@evroberts.com Website <http://www.evroberts.com>

Section 2. Hazards Identification

Classification ACUTE TOXICITY - DERMAL - Category 4
ACUTE TOXICITY - INHALATION - Category 3
ACUTE TOXICITY - ORAL - Category 4
CORROSIVE TO METALS - Category 1
EYE DAMAGE/IRRITATION - Category 1
FLAMMABLE LIQUIDS - Category 4
GERM CELL MUTAGENICITY - Category 2
SENSITIZATION - SKIN - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2

Signal Word Danger

Pictogram



Hazard Statements

Causes serious eye damage
Combustible liquid
Harmful if swallowed
Harmful in contact with skin
May be corrosive to metals
May cause an allergic skin reaction
May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if no other routes of exposure cause the hazard)
Suspected of causing genetic defects (state route of exposure if no other routes of exposure cause the hazard)
Toxic if inhaled

Precautionary Statements

Response

Absorb spillage to prevent material damage.
Call a poison center/doctor/ ... /if you feel unwell.
Call a poison center/doctor/...
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of water/ ...
If skin irritation or rash occurs: Get medical advice/attention.
If swallowed: Call a poison center/doctor/ ... / if you feel unwell.
Immediately call a poison center/doctor/ ...
In case of fire: Use ... to extinguish.
Rinse mouth.
Specific treatment (see ... on this label)
Take off immediately all contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not eat, drink or smoke when using this product.
Do not handle until all safety precautions have been read and understood.
Keep away from heat.
Keep only in original container.
Obtain special instructions before use.
Use only outdoors or in a well-ventilated area.
Wash ...thoroughly after handling.
Wear eye protection/face protection.
Wear protective Butyl Gloves, Face Shield, Eye Bath and Safety Shower.
Wear protective gloves.
Wear protective gloves/eye protection/face protection
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store in corrosive resistant/... container with a resistant inner liner.

Disposal Store locked up.
Dispose of contents/container to ...
Spill Response Procedures: May burn although not readily ignitable. Use cautious judgment when cleaning up large spills.

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

EMERGENCY OVERVIEW Harmful in contact with skin.
Harmful if swallowed.
Corrosive
May cause sensitization by skin contact.

Potential Health Effects

Inhalation Can cause severe eye, skin and respiratory tract burns.

Eye contact Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact Causes skin burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Harmful in contact with skin.

Ingestion Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Health Hazard This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Exposure Guidelines

Target Organs Skin, Eyes, Respiratory System

Aggravated Medical Condition Eye disease, Skin disorders and Allergies.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	1% - 5%
112-24-3	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	1% - 10%
108-95-2	Phenol	<50 %
25338-55-0	Phenol, [(dimethylamino)methyl]-	<5 %
111-40-0	1,2-Ethanediamine, N-(2-aminoethyl)-	<10 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

General advice Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye Contact	Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.
Skin Contact	Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.
Ingestion	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Get medical attention
Inhalation	Move person to fresh air.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	<p>Extinguishing media: Use alcohol-resistant foam, carbon dioxide (CO₂), dry chemical, dry sand, or limestone powder.</p> <p>Specific hazards: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from firefighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.</p> <p>Special Protective Equipment for Fire-Fighters Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.</p> <p>Further Information: Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</p>
Unsuitable Extinguishing Media	N/A

Section 6. Accidental Release Measures

Personal precautions	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental Precautions	Construct a dike to prevent spreading
Methods for cleaning up	Approach suspected leak areas with caution. Contact Air Products Emergency Response Center for advice. Place in appropriate chemical waste container.
Additional Advice	If possible, stop flow of product

Section 7. Handling and Storage

Handling	Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage	Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.
Technical measures/Precautions	Do not store in reactive metal containers

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Siloxanes and Silicones, di-Me, reaction products with silica	N/A	N/A	N/A
	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-	N/A	1 ppm, skin, TWA 6 mg/m3, inhalation	N/A
	Phenol	N/A	N/A	N/A
	Phenol, [(dimethylamino)methyl]-	N/A	N/A	N/A
	1,2-Ethanediamine, N-(2-aminoethyl)-	1ppm, 4mg/m3 Time Weighted Average (TWA)	N/A	N/A
Personal Protective Equipment	Goggles, Gloves, Face Shield, CHEMICAL GOGGLES, FULL SUIT			
Engineering Measures	Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.			
Personal Protective Equipment				
Respiratory Protection	Not ordinarily required			
Hand protection	Neoprene gloves. Butyl-rubber. Nitrile rubber. Impervious gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.			
Eye protection	Full face shield with goggles underneath. Chemical resistant goggles must be worn.			
Skin and Body Protection	Slicker Suit. Impervious clothing. Full rubber suit (rain gear).			

Environmental exposure controls	Rubber or plastic boots. Long sleeve shirt and trousers without cuffs. Construct a dike to prevent spreading.
Special Instructions for protection and hygiene	Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and before eating, smoking or using the toilet.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Amber
Odor	Ammoniacal
Odor Threshold	N/A
Solubility	< 0.1 g/l
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	100°C
FP Method	N/A
pH	Alkaline
Melting Point	N/A
Boiling Point	> 392 °F (> 200°C)
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	< 1.00 mmHg at 70°F (21°C)
Vapor Density	N/A

Section 10. Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Materials to Avoid	Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid, etc.). Mineral acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Hazardous Decomposition Products Nitric Acid
Ammonia
Nitrogen Oxides (NOx)
Nitrogen oxide can react with water vapors to form corrosive nitric acid.
Carbon Monoxide
Carbon Dioxide (CO2)
Nitrosamine

Section 11. Toxicological Information

Acute Health Hazard

Ingestion:
LD50: 1,620 mg/kg (Rat)

Inhalation:
No data available

Skin:
LD50: >1,000 mg/kg (Rabbit) (estimated)

Eye Irritation/corrosion: Non-irritant to the eyes of a rabbit.

Acute dermal irritation/corrosion: Non-irritant to the skin of a rabbit.

Sensitization: May cause sensitization by skin contact.

Chronic Health Hazard: The product or a component may be mutagenic, the data is inconclusive.

Section 12. Ecological Information

Ecotoxicity Effects

Aquatic Toxicity No data is available on the product itself.

Toxicity to other organisms No data available.

Persistence and degradability

Mobility: No data available

Bioaccumulation: No data is available on the product itself.

Bioaccumulation - Components
Nonylphenol - Moderate bioaccumulation potential

Section 13. Disposal

Waste from residues / unused products Contact supplier if guidance is required.

Contaminated packaging Dispose of container and unused contents in accordance with federal, state, and local requirements.

Section 14. Transport Information

UN Number	2810
UN Proper Shipping Name	Toxic liquid, organic, n.o.s.(Phenol)
DOT Classification	6.1
Packing Group	III
Additional Information	Sea transport IMDG UN number: UN 2810 UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.(Phenol) Transport hazard class(es): 6.1 Packing group: III

Section 15. Regulatory Information

Regulatory Information	<p>USA (TSCA) Included on the TSCA inventory EU (EINECS) Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer Canadian Domestic Substance List (DSL) Included on DSL inventory China (SEPA) Included on the SEPA Inventory Australia (AICS) Included on the AICS Inventory Japan (ENCS) Included on the ENCS Inventory South Korea (ECL) Included on the ECL Inventory Philippines (PICCS) Included on the PICCS Inventory</p> <p>EPA SARA TITLE III Section 312 (40CFR370) Hazard Classification: Acute Health Hazard, Chronic Health Hazard</p> <p>EPA SARA TITLE III Section 313 (40CFR372) Component(s) above de minimus level: None</p> <p>CALIFORNIA PROPOSITION 65 WARNING: This product does not contain any chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.</p> <p>WHMIS Hazard Classification: Toxic Material causing immediate and serious toxic effects, Toxic material causing other toxic effects, Corrosive Material.</p>
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Additional Information	<p>US Federal Regulations SARA Title III Section 311/312 Hazard Categories - Fire Hazard - Acute Health Hazard - Chronic Health Hazard</p> <p>US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required - The following components are subject to reporting levels established by SARA Title III, Section 313: Phenol CAS-No.: 108-95-2</p> <p>US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) - The following components are subject to reporting levels</p>
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established by SARA Title III, Section 302: Phenol CAS-No.: 108-95-2

State Regulations US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Section 16. Other Information

Revision Date

3/27/2018

HMIS Rating (Not Regulated)

The HMIS Rating for this product is:
Health: 3 Flammability: 1 Reactivity: 1

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

Disclaimer

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To determine applicability or effects of any law or regulation with respect to the product, user should consult his legal advisor or the appropriate government agency. E.V. Roberts does not undertake to furnish advice on such matters.