

Safety Data Sheet

RF 93547 Part A

Section 1. Identification

Product Identifier RF 93547 Part A
Synonyms Modified Epoxy Resin
Manufacturer Stock Numbers 11409A

Recommended use Modified Epoxy Resin
Uses advised against Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids. In reactions with many curing agents, considerable heat is released.

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 ASPIRATION HAZARD - Category 2
EYE DAMAGE/IRRITATION - Category 2A
FLAMMABLE LIQUIDS - Category 4
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3)

Signal Word Warning
Pictogram





Hazard Statements

Causes serious eye irritation
Combustible liquid
May be harmful if swallowed and enters airways
May cause respiratory irritation
Moderately irritating to skin

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.
Do NOT induce vomiting.
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 inhaled: Remove person to fresh air and keep comfortable for breathing.
If swallowed: Immediately call a poison center/doctor/...
In case of fire: Use ... to extinguish.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Keep away from heat.
Use only outdoors or in a well-ventilated area.
Wash ...thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves/eye protection/face protection

Storage

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

Disposal

Dispose of contents/container to ...

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

EMERGENCY OVERVIEW

Health Hazards:
Severe irritating to skin. May cause sensitization by continuous contact with skin or vapors (especially if heated). Severe irritating to eyes.

Physical Hazards:
Reacts with strong oxidizing agents, amines, acids (Lewis of mineral). Will exotherm when reacting. This reaction accelerates at higher temperatures.

Appearance:
Off-White or colored (if pigmented with one of the available colors). Resinous liquid.

Odor:
Characteristic sweet odor.

Read the entire MSDS for a more thorough evaluation of the hazards.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
2426-08-6	N- Butyl Glycidyl Ether (BGE)	< 10 %
25068-38-6	Bis A/Epichlorohydrin Resin	>40 %
37244-96-5	Nephenline Syenite	50 %

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

Section 4. First-Aid Measures

General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	Potential Respiratory Irritant: Remove patient from exposure, keep warm and at rest. Obtain medical attention. Treatment is symptomatic for primary irritation or bronchospasm. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing.
Skin Contact	SEVERE Irritation: May be toxic if absorbed through skin. Immediately remove contaminated clothing. Wipe excess from skin and flush with plenty of water for 15 minutes. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse. Contaminated leather articles can not be decontaminated and should be destroyed.
Eye Contact	Severe irritant: 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.
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.
Note to Physician	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 extreme cases, unconscious and death may occur. However, symptomatic and supportive therapy may be needed following severe exposure. In such cases, medical follow-up should be maintained for at least 48 hours.
Treatment	If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of IPECAC. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following with a cuffed endotracheal tube.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

COMBUSTIBLE:

Vapors may travel across the ground and reach remote ignition sources causing a flash back fire danger.

CAUTION! COMBUSTIBLE:

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container area exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Extinguishing Media:

Carbon dioxide, dry chemical or appropriate foam. If water is used, very large quantities are required. Reaction between epoxies and this curing agent may be vigorous. Contain runoff water with temporary barriers.

Fire Fighting Protective Equipment:

Use self-contained breathing apparatus and full protective clothing (Bunker Gear).

Flash Point:

163°F (73°C) (Setaflash)

Flammable Limits (Lower):

Not available.

Flammable Limits (Upper):

Not available.

Auto Ignition Temperature:

Not available.

Decomposition Temperature:

~300°F (149°C): Slow oxidative decomposition in the presence of air.

>500°F (260° C): Polymerization may occur

Rate of Burning:

Not available.

Sensitivity to Mechanical Impact:

None.

Decomposition Product:

Carbon monoxide, Aldehydes, Acids and other organic substances may be formed during the combustion or thermal or oxidative decomposition. Reaction with some curing agents may produce considerable heat (exotherm), Run-a-way cure reaction may char and decompose the resin system, generating unidentified fumes and vapors, which may be toxic.

Unsuitable Extinguishing Media

N/A

Section 6. Accidental Release Measures

Major Spills	For Major Spills, call CHEMTREC at 1-800-424-9300
Spills, Leaks or Releases	Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand), Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Remove and dispose of residues. Notify applicable government authorities if release is reportable. Small spills: Take up with an absorbent material and dispose of properly.

Section 7. Handling and Storage

Special Precautions	Emptied containers can contain hazardous product residues. Handle in accordance with the hazard potential of curing agent(s) used. Avoid contact with eyes, avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, can not be decontaminated and should be destroyed. Warning: may cause skin and eye irritation. May cause skin sensitization. Minimize bodily contact. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Heating this material above 300°F in the presence of air may cause slow oxidative decomposition. Above 500°F, polymerization may occur. Some curing agents, eg. Aliphatic amines can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. DO NOT BREATHE FUMES. Use a NIOSH-approved respirator.
Handling	Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the defined occupational exposure limit is not exceeded. The efficiency of the ventilation must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. When the product is sprayed or heated, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.
Storage Requirements	Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from open flames and high temperatures.
Storage Temperature	Ideal storage temperature is 16-38°C (60-100°F)
Shelf Life	12 Months @ 77°F (25°C)

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	N- Butyl Glycidyl Ether (BGE)	N/A	N/A	N/A
	Bis A/Epichlorohydrin Resin	N/A	N/A	N/A
	Nephenline Syenite	N/A	N/A	N/A
<p>Personal Protective Equipment</p> <p>Preventive Measures</p>	<p>Goggles, Gloves, Apron, Face Shield, Respirator, CHEMICAL GOGGLES, PROTECTIVE CLOTHING</p> <p>Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.</p>			
<p>Engineering Controls</p>	<p>Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. Follow guidelines in the ACGIH publication "Industrial Ventilation".</p>			
<p>Personal Protective Equipment</p> <p>Eye Protection</p>	<p>Chemical safety goggles. If there is a potential for splashing, use a full-face shield.</p>			
<p>Skin Protection</p>	<p>The following protective materials are recommended. Gloves - neoprene, nitrile-butadiene rubber, butyl rubber. Thin disposable gloves should be avoided for repeated or long term use. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.</p>			
<p>Respiratory Protection</p> <p>Protective Clothing</p>	<p>Not ordinarily required</p> <p>Avoid contact with eyes. Wear safety goggles as appropriate. Wear chemical resistant clothing as required to minimize contact</p>			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear Resin
Odor	Sweet Odor
Odor Threshold	N/A
Solubility	Negligible
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	163°F (73°C)
FP Method	setaflash
Ph	< 10
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	~300°F (149° C)
Auto-ignition Temperature	N/A
Vapor Pressure	400 Pa @ 77° F (25°C)
Vapor Density	400 Pa @ 77° F (25°C)

Section 10. Stability and Reactivity

Hazardous Decomposition Products	Carbon monoxide, aldehydes, acids and other organic substances may be formed during the combustion or thermal or oxidative decomposition. Reaction with some curing agents may produce considerable heat (exothermic). Run-A-Way cure reactions may char and decompose the resin system, generating unidentified fumes and vapors which may be toxic.
Chemical Stability	Stable at room temperature
Conditions to Avoid	HEAT. Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids, and strong mineral and organic bases, especially primary and secondary aliphatic amines.

Section 11. Toxicological Information

Acute Toxicity Data	Bis A epichlorohydrin: Acute Oral LD50: 11.4g/kg (rat) Acute Dermal LD50: <20g/kg (rabbit) Acute Inhalation LD50: No Deaths, SAT. Air, 8 hr
POTENTIAL HEALTH EFFECTS:	
Inhalation	Not expected to be relevant route of exposure. However, high vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.
Skin Irritation	Severe skin irritant. Repeated and/or prolonged contact may cause skin sensitization.
Eye Contact	The aerosol, vapor or liquid will irritate human eyes following contact.
Ingestion	Ingestion may cause irritation of the gastrointestinal tract. This product is considered to have a low order of acute oral toxicity.
Chronic Effects	Repeated contact can cause skin sensitization. Preexisting skin, eye and respiratory may be aggravated by exposure to this product.
Carcinogenicity	Epichlorohydrin, CAS 106-89-8, an impurity in this product, (<50 PPM), has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (IARC Group 2A) based on the following conclusions: Human evidence - inadequate; animal evidence - sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP)
Mutagenicity	There is no substantial evidence of mutagenic potential.
Reproductive Effects	No adverse reproductive effects are anticipated.
Teratogenicity and Fetotoxicity	No information is available and no adverse teratogenic embryotoxic effects are anticipated.

Section 12. Ecological Information

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.
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Section 13. Disposal

Disclaimer Part 1	The generation of waste should be avoided or minimized wherever possible.
Disclaimer Part 2	Disposal should be in accordance with local, state, provincial and national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a liquid decontaminate. The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.
Disclaimer Part 3	Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	N/A
DOT Classification	N/A
Packing Group	N/A
DOT NOT REGULATED	Not regulated by DOT regulations if 119 gallon capacity or less

Section 15. Regulatory Information

Regulatory	This product is listed on the EPA/TSCA inventory of chemical substances. Protection of stratospheric ozone (pursuant to Section 611 of the Clean Air Act Ammendment of 1990); Per 40 CFR Part 82, this product does not contain nor was it directly manufactured with any Class I or Class II ozone depelting substances. In accordance with SARA Title III, Section 313.
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Section 16. Other Information

Revision Date	5/1/2015
HMIS Rating (Not Regulated)	The HMIS Rating for this product is: Health: 3 Flammability: 2 Reactivity: 0 0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe For Information Purposes Only - No Longer Regulated

Disclaimer	<p>NOTICE: While the descriptions, designs data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. Many factors may affect processing or application/use. We recommend you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties or merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sales. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by E.V. Roberts hereunder are given gratis and E.V. Roberts assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.</p>
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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.

Safety Data Sheet

RF 93547 Part B

Section 1. Identification

Product Identifier	RF 93547 Part B		
Synonyms	Epoxy Curing Agent		
Manufacturer Stock Numbers	11409B		
Recommended use	Epoxy Curing Agent		
Uses advised against	Avoid high temperatures. Avoid flames. Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids. Will exotherm when reacting. This reaction accelerates at higher temperatures		
Manufacturer Contact			
Address	Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA		
	Phone	Emergency Phone	Fax
	(310) 204-6159	(800) 424-9300 CHEMTREC	(310) 202-7247
	Email	Website	
	sales@evroberts.com	http://www.evroberts.com	

Section 2. Hazards Identification

Classification ACUTE TOXICITY - INHALATION - Category 5
ACUTE TOXICITY - ORAL - Category 5
EYE DAMAGE/IRRITATION - Category 2B
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single E - Category 3)

Signal Word

Warning

Pictogram



Hazard Statements

Causes eye irritation
May be harmful if inhaled
May be harmful if swallowed
May cause respiratory irritation; or May cause drowsiness or dizziness
Moderately irritating to skin

Precautionary Statements

Response Call a poison center/doctor/ ... /if you feel unwell.
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 INHALED: Call a POISON CENTER or doctor/... if you feel unwell
If inhaled: Remove person to fresh air and keep comfortable for breathing.

Prevention Avoid breathing dust/fume/gas/mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash ...thoroughly after handling.

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

Disposal Dispose of contents/container to ...

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

EMERGENCY OVERVIEW Health Hazards:
Severe Skin & Eye Irritant, May cause irritation and/or sensitization through repeated contact
May be harmful if swallowed. Can cause burns to mouth, and throat
Respiratory irritant
May cause sensitization by inhalation

Appearance:
Viscous Light Amber Liquid

Odor:
Amoniacal odor.

Read the entire MSDS for a more thorough evaluation of the hazards.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
68410-23-1	Polyamide Resin	100 %

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

Section 4. First-Aid Measures

Target Organs	Skin, Eyes and Respiratory System
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation	<p>Irritant:</p> <p>Remove patient from exposure, keep warm and at rest. Vapors may be mildly to severely irritating to respiratory tract. Repeated exposure can cause irritation. May cause Central Nervous System (CNS). Depression: Obtain medical attention IMMEDIATELY. Treatment is Symptomatic for primary irritation or bronchospasm. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or show signs of failing.</p>
Skin Contact	<p>Skin Irritant: LD50: 3.0 (scale 0-8), species, Rabbit</p> <p>May cause skin irritation and sensitization. Wash affected areas thoroughly with soap and water. Obtain medical attention IMMEDIATELY. Contaminated clothing should be thoroughly cleaned before reuse. Cannot decontaminate leather articles. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.</p>
Eye Contact	<p>Severe Eye Irritant. 75.6 (Scale 0-110), species Rabbit. Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. Obtain medical attention IMMEDIATELY.</p>
Ingestion	<p>Severe Irritant LD50: >8.0g/kg, species, Rat</p> <p>Do NOT induce vomiting. May cause gastrointestinal irritation or ulceration. May cause irritation and burns to mouth, throat, and stomach. May be moderately toxic if swallowed. May cause CNS depression. Give large amounts of water followed by milk if available. Obtain medical attention IMMEDIATELY.</p>
Signs and Symptoms	<p>Irritation as noted above. Lung damage (scarring, bronchitis, emphysema) may be evidenced by shortness of breath, especially on exertion, and may be accompanied by evidenced by rashes, especially hives and may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness, respiratory depression and death may occur.</p>

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Containers may burst under intense heat.

Extinguishing Media:

Carbon dioxide, dry chemical or appropriate foam. If water is used, very large quantities are required. Reaction between epoxies and this curing agent may be vigorous. Contain runoff water with temporary barriers.

Fire Fighting Protective Equipment:

Use self-contained breathing apparatus and full protective clothing (Bunker Gear).

Flash Point:

>500°F (>260°C)

Flammable Limits (Lower):

Not determined.

Flammable Limits (Upper):

Not determined.

Rate of Burning:

Not determined.

Explosive Power:

None.

Sensitivity to Mechanical Impact:

None.

Sensitivity to Static Discharge:

None.

Decomposition Products:

CO, CO₂, NO_x and some HCN.

Unsuitable Extinguishing Media

N/A

Section 6. Accidental Release Measures

Major Spills Spills, Leaks or Releases

For Major Spills, call CHEMTREC at 1-800-424-9300

Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains. Contain and absorb large spillages onto an inert, non-flammable absorbent carrier (such as earth or sand), Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Notify applicable government authorities if release is reportable.

Section 7. Handling and Storage

Handling	Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the defined occupational exposure limit is not exceeded. The efficiency of the ventilation must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. When the product is sprayed or heated, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.
Storage Requirements	Keep containers properly sealed and stored indoors, in a cool, dry, well ventilated area. DO NOT STORE NEAR ACIDS. Do not store in reactive containers. Keep contents away from open flames and high temperatures. Do not pressurize drum containers to empty them. Heating this curing agent in the presence of air may cause thermal and oxidative decomposition. With some epoxy resins, it may produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. DO NOT BREATHE FUMES. Use a NIOSH-approved respirator as required to prevent over exposure. In accordance with 29 CFR 1910-134. Use a full face, atmosphere-supplying respirator or an air purifying respirator for organic vapors.
CAUTION	SEVERE EYE IRRITANT , skin and respiratory tract. May cause skin sensitization. May cause CNS depression. Do not get into eyes, on skin or on clothing. Do not breathe vapors or mists. Containers, even those that have been empties, can cause hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather cannot be decontaminated and should be destroyed to prevent reuse.
Storage Temperature	Ideal storage temperature is 16-38°C (60-100°F) Store closed in cool dry, and well ventilated place.
Shelf Life	12 Months @ 77°F (25°C)

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Polyamide Resin	N/A	N/A	N/A
<p>Personal Protective Equipment</p> <p>Preventive Measures</p>	Goggles, Gloves, Apron, Face Shield, Respirator, CHEMICAL GOGGLES			
Engineering Controls	Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.			
Personal Protective Equipment	Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. Follow guidelines in the ACGIH publication "Industrial Ventilation".			
<p>Eye Protection</p> <p>Skin Protection</p>	Chemical safety goggles. Use a full-face shield.			
Respiratory Protection	The following protective materials are recommended. Gloves - neoprene, nitrile-butadiene rubber, butyl rubber. Thin disposable gloves should be avoided for repeated or long term use. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.			
Exposure Guidelines	Use a NIOSH/MSHA approved positive pressure air-supplied respirator equipped with a full facepiece, or an air-supplied hood, if airborne concentrations exceed or are expected to exceed the TLV.			
	Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with this product. Once a person is diagnosed as sensitized, no further exposure to any sensitizer should be permitted.			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Viscous Amber
Odor	Amonical
Odor Threshold	N/A
Solubility	Moderate - (1 to 10%)
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.97
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	> 500°F (> 260°C)
FP Method	Cleveland Open Cup
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

Hazardous Decomposition Products	Highly unlikely under normal industrial use. See section 5.
Chemical Stability	Stable at room temperature
Conditions to Avoid	Avoid high temperatures. Avoid flames and contact with strong oxidizing agents.
Hazardous Polymerization	Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed during combustion

Section 11. Toxicological Information

No Data Available

Section 12. Ecological Information

Environmental Fate and Distribution It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

Section 13. Disposal

Disclaimer Part 1 The generation of waste should be avoided or minimized wherever possible.
Disclaimer Part 2 Disposal should be in accordance with local, state, provincial and national regulations. This material is not a hazardous waste under RCRA 40 OPP 293547 Part B. Small quantities should be treated with a decontaminate solution. The treated waste is not a hazardous material under RCRA 40 CFR 293547 Part B. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.
Disclaimer Part 3 Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

Section 14. Transport Information

UN Number N/A
UN Proper Shipping Name N/A
DOT Classification N/A
Packing Group N/A

Section 15. Regulatory Information

Regulatory This product is listed on the EPA/TSCA inventory of chemical substances.
Sara 311/312 Hazards Acute Health Hazard
SARA 313 Toxic Chemicals None
SARA 302 Extremely Hazardous Substances None
CERCLA Hazardous Chemicals None
California Prop. 65 Components None

Section 16. Other Information

Revision Date

5/4/2015

HMIS Rating (Not Regulated) The HMIS Rating for this product is:
Health: 3 Flammability: 1 Reactivity: 0

The NFPA Rating for this product is:
Health: 3 Flammability: 1 Reactivity: 0 Other: None

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

Disclaimer

NOTICE: While the descriptions, designs data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. It is provided independently of any sale of the product for purpose of hazard communication as part of E.V. Roberts' product safety program. Many factors may affect processing or application/use. We recommend you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties or merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sales. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by E.V. Roberts hereunder are given gratis and E.V. Roberts assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

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.