



Safety Data Sheet

RF 3005 All Versions Part A

Section 1. Identification

| | | | |
|----------------------------|--|----------------------------|----------------|
| Product Identifier | RF 3005 All Versions Part A | | |
| Synonyms | N/A | | |
| Manufacturer Stock Numbers | N/A | | |
| Recommended use | Epoxy Resin | | |
| 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 - DERMAL - Category 3 ACUTE TOXICITY - INHALATION - Category 3 EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE LIQUIDS - Category 4 |
| Signal Word | Danger |

Pictogram



Hazard Statements

Causes serious eye irritation
Combustible liquid
Toxic if inhaled
Toxic in contact with skin

Precautionary Statements

Response

Call a poison center/doctor/ ... /if you feel unwell.
Call a poison center/doctor/...
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 on skin: Wash with plenty of water/ ...
In case of fire: Use ... to extinguish.
Specific treatment (see ... on this label)
Take off immediately all contaminated clothing and wash it before reuse.

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 Butyl Gloves, Face Shield, Eye Bath and Safety Shower.
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

Health Hazards

Toxic if inhaled. Severe irritation to skin. May cause sensitization by continuous contact with skin or vapors (especially if heated). Severe irritation to eyes.

Physical Hazards

Combustible liquid and vapor. Reacts with strong oxidizing agents, amines, acids (Lewis of mineral). Will exotherm when reacting. This reaction accelerates at higher temperatures.

Appearance

Liquid

Odor

Characteristic sweet odor

Section 3. Ingredients

| CAS | Ingredient Name | Weight % |
|------------|---|----------|
| 2426-08-6 | Oxirane, (butoxymethyl)- | 10-30 % |
| 25068-38-6 | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane | 70-100 % |

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: Toxic if inhaled. 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. |
| Signs and Symptoms | 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

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 water and hot isocyanate 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.

Unsuitable Extinguishing Media

N/A

Decomposition Products

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 (exotherm), Run-a-way cure reaction may char and decompose the resin system, generating unidentified fumes and vapors, which may be toxic.

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

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|----------------------|--|
| Special Precautions | <p>Empty 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, cannot be decontaminated and should be destroyed.</p> <p>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.</p> |
| 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 |
|--|--|--|----------|------|
| | Oxirane, (butoxymethyl)- | Time Weighted Average (TWA) OSHA Z1, PEL 50 ppm, 270 mg/m ³ , OSHA Z1A, PEL 25 ppm, 135 mg/m ³ | N/A | N/A |
| | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane | N/A | none | N/A |
| Personal Protective Equipment Preventive Measures | Goggles, Gloves, Apron, Face Shield, Respirator, CHEMICAL GOGGLES, PROTECTIVE CLOTHING | | | |
| 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. | | | |
| Eye Protection | 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". | | | |
| Skin Protection | Chemical safety goggles. If there is a potential for splashing, use a full-face shield. | | | |
| Respiratory Protection Protective Clothing | 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. | | | |
| | Not ordinarily required | | | |
| | Avoid contact with eyes. Wear safety goggles as appropriate. Wear chemical resistant clothing as required to minimize contact | | | |

Section 9. Physical and Chemical Properties

| | |
|---------------------------------------|--------------------------------|
| Physical State | Liquid |
| Color | N/A |
| Odor | Characteristic 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 | 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 | ~300°F (149°C) |
| Auto-ignition Temperature | N/A |
| Vapor Pressure | 400 Pa @ 77°F (25°C), based on |
| Vapor Density | 4.5 |

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 |
| 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. |
|-----------------------------------|---|

Section 13. Disposal

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|-------------------|---|
| 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 |

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 Amendment 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 depleting substances. In accordance with SARA Title III, Section 313.

Section 16. Other Information

Revision Date

4/22/2015

HMIS Rating (Not Regulated)

The HMIS Rating for this product is:
Health: 2 Flammability: 2 Reactivity: 0

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

For Information Purposes Only - No Longer Regulated

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.



Safety Data Sheet

RF 3005 All Mods, Part B

Section 1 – Chemical Product and Company Identification

| | | | |
|------------------------------|---|---|----------------|
| Product Identifier | RF 3005 All Mods, Part B | | |
| Synonyms | N/A | | |
| Manufacturer Stock Numbers | | | |
| Recommended use | Epoxy Hardener | | |
| Uses advised against | Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids. | | |
| Manufacturer Contact Address | Resin Formulators 18027 Bishop Avenue Carson, CA, 90746 USA | | |
| | Phone | Emergency Phone | Fax |
| | (310) 204-6159 | (800) 424-9300 | (310) 202-7247 |
| | | CHEMTREC | |
| | Email | Website | |
| | sales@evroberts.com | http://www.evroberts.com | |

Section 2 – Hazards Identification

| | |
|----------------|---|
| Classification | SKIN CORROSION 1B SERIOUS EYE DAMAGE 1 SKIN SENSITIZATION 1 |
|----------------|---|

| | |
|-------------|--------|
| Signal Word | DANGER |
| Pictogram | |



| | |
|-------------------|--|
| Hazard Statements | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION. |
|-------------------|--|

| | |
|-----------------------------------|--|
| Precautionary Statements Response | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
|-----------------------------------|--|

MSDS –

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

Prevention

Do not breathe dust or fumes. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

Storage
Disposal

Store locked up.
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Ingredients of unknown
toxicity

0%

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

Section 3 – Ingredients

| CAS | Ingredient Name | Weight % |
|-------------|--|----------|
| Proprietary | Polyamide | 60-100 |
| 112-24-3 | Triethylenetetramine | 10-30 |
| 112945-52-5 | Silica, amorphous, fumed, crystal-free | 1-5 |

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

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

Skin Contact

Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion

DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Symptoms

See section 11.

Section 5 – Fire Fighting Measures

Suitable Extinguishing
Media

Water spray (fog), foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing
Media

N/A

Special Firefighting
Procedures

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

MSDS –

Unusual Fire or
Explosion Hazards

In case of fire, keep containers cool with water spray. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

Hazardous combustion
Products

Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

Section 6 – Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions Do not allow product to enter sewer or waterways.

Spills, Leaks or Releases Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

Section 7 – Handling and Storage

Handling Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

Storage Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store away from heat, sparks, flames, or other sources of ignition.

Section 8 – Exposure Controls/Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Occupational Exposure
Limits

| Ingredient Name | ACGIH TLV | AIHA WEEL | OSHA PEL |
|--------------------------|---|----------------------------------|-------------------------------|
| Triethylenetetramine | 10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable | 1 ppm (6 mg/m3) TWA (SKIN) | 20 MPPCF TWA 0.8 mg/m3 TWA |
| Silica, amorphous, fumed | fraction. | | |

Engineering Controls Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Eye Protection Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin Protection Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

MSDS –

Respiratory Protection

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Section 9 – Chemical and Physical Properties

| | |
|---|--|
| Physical state: | Paste |
| Color: | Translucent, Amber |
| Odor: | Ammoniacal |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | 0.01 mm hg (20 °C (68°F)) |
| Boiling point/range: | 270 °C (518°F) |
| Melting point/ range: | Not available. |
| Specific gravity: | 0.98 |
| Vapor density: | 5 |
| Flash point: | > 129.5 °C (> 265.1 °F) ; Estimated |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not available. |
| Evaporation rate: | Not available. |
| Solubility in water: | Not miscible or difficult to mix |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | 0 %; 0 g/l (value for resin and hardener together) |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

Section 10 – Stability and Reactivity

| | |
|---|--|
| Hazardous Decomposition Products | Hydrocarbons. Oxides of carbon. Oxides of nitrogen. Irritating organic vapors. |
| Chemical Stability | Stable under normal conditions of storage and use. |
| Incompatible materials | Strong acids. Strong bases. Strong oxidizing agents. Amines. Water. |
| Conditions to Avoid | Avoid temperatures above 38°C (100°F). Excessive heat. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. |

Section 11 – Toxicology Information

Relevant routes of exposure Skin, Inhalation, Eyes, Ingestion.

POTENTIAL HEALTH EFFECTS:

| | |
|---------------------|--|
| Inhalation | May cause irritation to nose and throat. Inhalation of vapors or mists of the product may be irritating to the respiratory system. |
| Skin Contact | Corrosive to skin. Causes skin burns. May cause allergic skin reaction. Rash. Redness. |
| Eye Contact | Causes serious eye damage. Redness. Tissue damage. |
| Ingestion | May cause burns of mouth and throat if swallowed. Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|--|-----------------|---|
| Polyamide | None | No Records |
| Triethylenetetramine | None | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--|----------------|-----------------|--|
| Polyamide | No | No | No |
| Triethylenetetramine | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |

Section 12 – Ecological Information

Environmental Release Information Not Available

Section 13 – Disposal Considerations

Information provided is for unused product only.

Recommended Method Of Disposal

Follow all local, state, federal and provincial regulations for disposal.

Disclaimer

It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

Section 14 – Transportation Information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Triethylenetetramine solution
 Hazard class or division: 8
 Identification number: UN 2259
 Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Triethylenetetramine solution
 Hazard class or division: 8
 Identification number: UN 2259
 Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. solution (Triethylenetetramine, Polyamide resin)
 Hazard class or division: 8
 Identification number: UN 3267
 Packing group: II

Marine pollutant:

Polyamide resin

Section 15 – Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: None above reporting de minimis

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

Section 16 – Other Information

Revision Date 5/27/2015

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

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