# Safety Data Sheet

Date Revised: 10/03/2023

Supersedes: 11/08/2022

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| **Product Name(s):** | **Five Star® High Flow Pile Jacket Epoxy Grout LPL-HF / Component B Hardener** |
| **Synonyms:** | Curing Agent, Component B |
| **Product Use:** | For use with Five Star® Epoxy Grout Aggregate and Five Star® High Flow Pile Jacket Epoxy Grout LPL-HF Resin |
| **Restrictions on Use:** | To be used with specific Five Star® systems. |
| **Manufacturer/Supplier** | Five Star Products, Inc.<br>2 Enterprise Drive<br>Suite 303<br>Shelton, CT 06484 USA |
| **Phone #:** | 203-336-7900 |
| **Emergency Phone #:** | **VelocityEHS 1-800-255-3924**<br>**(Outside the U.S. 1-813-248-0585)** |

## SECTION 2: HAZARD(S) IDENTIFICATION-GHS INFORMATION

**Classification:**

Acute Toxicity (oral) – Category 4
Acute Toxicity (dermal) – Category 4
Skin Corrosion/Irritation, Category 1B, 1C
Serious Eye Damage, Category 1
Skin sensitization, Category 1
Acute aquatic toxicity, Category 2

**Label Elements/Hazard Pictograms:**

**Signal Word:** Danger

**Hazard Statements:**

H302: Harmful if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H401: Toxic to aquatic life

**Precautionary Statements/Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves: > 8 hours (breakthrough time): Ethyl Vinyl Alcohol Laminate (EVAL), butyl rubber. Wear eye or face protection. Wear protective clothing.

**Response:**

P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P302+P352+P332+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

P303+P361+P353+ P363+P310: 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.

P304+P340+P313: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

P305+P351+P338+P315: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Get immediate medical advice/attention.

P321 Specific treatment (see supplemental first aid on the label)

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.

**Hazards Not Otherwise Classified:**

None known

| **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS** | | |
|---|---|---|
| **Hazardous Ingredient(s)** | **CAS No.** | **% wt/wt** |
| Trimethylcycloaliphaticdiamine | Trade Secret | 35-45 |
| Dialkyletherpolyamine | Trade Secret | 25-35 |
| Cycloaliphatic Hydroxide | Trade Secret | 15-35 |
| Tertiary Amine | Trade Secret | 1-10 |
| Aminocycloaliphatic Hydroxide | Trade Secret | 0-5 |

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

## SECTION 4: FIRST AID MEASURES

**Inhalation:** Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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. Get medical attention immediately. Call a poison center or physician.

**Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

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

**Note to Physicians:** No specific treatment. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## SECTION 5: FIRE-FIGHTING MEASURES

**Flammability and Explosion Information:** In a fire or if heated, a pressure increase in a closed container will occur and it may burst.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

**MEANS OF EXTINCTION**

**Suitable Extinguishing Media:** Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand, limestone powder.

**Unsuitable Extinguishing Media:** None known.

**Protection of 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-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Hazardous thermal decomposition products:** Carbon oxides, carbon monoxide, nitrogen oxides, other organic compounds

**Specific hazards arising from the chemical:** This material is very 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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:** Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

**Personal Precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8 of SDS).

**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. Collect spillage.

**Methods for Containment:** 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.

**Methods for Cleanup:** 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. Dispose of via a

licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**Other Information:** See Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Put on appropriate personal protective equipment (see section 8 of SDS). Keep product and empty containers away from heat and sources of ignition. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. 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. Do not ingest. Avoid breathing vapor or mist. 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.

**Advice on general occupational hygiene:** Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Storage:** Store in accordance with local regulations. Store in cool, dry area. Keep away from open flames, hot surfaces, and sources of ignition. Store in original container protected from direct sunlight in and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. 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.

## SECTION 8: EXPOSURE CONTORLS/PERSONAL PROTECTION

**Exposure Guidelines**

**Occupational exposure limits**

| | |
|---|---|
| Aromatic Hydroxide | ACGIH TLV – [Phenol]: TWA 10.0 ppm |
| Tertiary Amine | ACGIH TLV – [Phenol]: TWA 5 ppm |

**Engineering 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.

**Environmental exposure Controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**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:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Skin and Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**General Hygiene Considerations:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|---|---|
| **Appearance:** | Liquid |
| **Color:** | Yellow |

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|---|---|
| **Odor:** | Amine like |
| **Odor Threshold:** | Not available |
| **Physical State:** | Liquid |
| **pH:** | Not available, alkaline |
| **Melting Point / Freezing Point:** | Not available |
| **Initial Boiling Point:** | Not available |
| **Boiling Point:** | Not available |
| **Flash Point:** | Not available |
| **Evaporation Rate:** | Not available |
| **Flammability (solid, gas):** | Not available |
| **Lower Flammability Limit:** | Not available |
| **Upper Flammability Limit:** | Not available |
| **Vapor Pressure:** | Not available |
| **Vapor Density:** | Not available |
| **Solubility:** | Partially soluble |
| **Partition Coefficient: n-Octanol/Water:** | Not available |
| **Auto-ignition Temperature:** | Not available |
| **Decomposition Temperature:** | >120°C (>248°F) [Data based on tests on similar product] |
| **Viscosity:** | 150 cP (mPa*s) |
| **Percent Volatile, wt.%:** | 0% |
| **VOC Content, wt.%:** | 0% |
| **Density:** | 1.05 g/cc |
| **Coefficient of Water/Oil Distribution:** | Not available |

## SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| **Chemical Stability:** | Stable under normal conditions. |
| **Possibility of Hazardous Reactions:** | Under normal conditions of storage and use, hazardous reactions will not occur. |
| **Conditions to Avoid:** | Excessive heat. |
| **Incompatible Materials:** | Strong oxidizing agents, strong acids |
| **Hazardous decomposition products:** | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| **Possibility of hazardous Reactions:** | Under normal conditions of storage and use, hazardous reactions will not occur. |

**Other Hazards:**

Heating this substance above 300F in the presence of air may cause slow oxidative decomposition; above 500F polymerization may occur. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants

Fumes and vapors from the thermal and chemical decompositions vary widely in composition and toxicity.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

| Product/ingredient name | Endpoint | Species | Result |
|---|---|---|---|
| TRimethylcycloaliphaticdiamine | LD50 Dermal<br>LD50 Oral | Rabbit<br>Rat | 2090 mg/kg<br>1,030 mg/kg |
| Aromatic Hydroxide | LC50 Oral<br>LD50 Dermal<br>LC50 Inhalation | Rat<br>Rabbit<br>Rat | 1,230 mg/kg<br>2,000 mg/kg<br>8.8 mg/L/4h |
| Tertiary Amine | LD50 Dermal<br>LD50 Oral | Rat – Male<br>Rat – Male, Female | >971 mg/kg<br>2169 mg/kg |
| Dialkyletherpolyamine | LD50 Dermal<br>LD50 Oral<br>LC0 Inhalation | Rat<br>Rat<br>Rat | 2,980 mg/kg<br>2,885 mg/kg<br>>0.74 mg/L/8h |

**Irritation/Corrosion:**

| Product/ingredient name | Test | Species | Result |
|---|---|---|---|
| Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl- | Acute Dermal Irritation/Corrosion | - | Skin – Corrosive |
| Aromatic Hydroxide | Acute Dermal Irritation/Corrosion | Rabbit | Skin – Irritating 24hr |
| Tertiary Amine | OECD 404 Acute Dermal Irritation/Corrosion<br>EPA CFR | Rabbit<br>Rabbit | Skin – Corrosive<br>Eyes - Corrosive |
| Dialkyletherpolyamine | OECD guideline 404,<br>OECD guideline 405, | Rabbit | Skin – Corrosive<br>Eyes – Corrosive |

**Conclusion/Summary**

| | | |
|---|---|---|
| **Skin:** | Dialkyletherpolyamine | Corrosive to the skin. |
| | Trimethylhexamethylenediamine | Corrosive to the skin. |
| | Tertiary Amine | Corrosive to the skin. |

| | | |
|---|---|---|
| **Eyes:** | Dialkyletherpolyamine | Corrosive to eyes. |
| | Trimethylhexamethylenediamine | Corrosive to eyes. |
| | Tertiary Amine | Corrosive to eyes. |
| **Respiratory:** | Dialkyletherpolyamine | No additional information. |
| | Trimethylhexamethylenediamine | No additional information. |
| | Tertiary Amine | No additional information. |

**Sensitization:**

| Product/ingredient name | Route of exposure | Species | Result |
|---|---|---|---|
| Tertiary Amine | Skin | Guinea pig | Not sensitizing |

**Mutagenity:**

| Product/ingredient name | Test | Result |
|---|---|---|
| Tertiary Amine | Experiment: In vitro<br>Subject: Bacteria<br>Metabolic activation: +/- | Negative |
| | Experiment: In vitro<br>Subject: Mammalian-Animal<br>Cell: Somatic<br>Metabolic activation: +/- | Negative |
| | Experiment: In vitro<br>Subject: Mammalian-Human<br>Cell: Somatic<br>Metabolic activation: +/- | Negative |

**Conclusion/Summary:**

| | |
|---|---|
| Tertiary Amine | Not mutagenic in a standard battery of genetic toxicological tests. |

**Carcinogenicity:** No additional information

**Reproductive toxicity:**

| | |
|---|---|
| Aromatic Hydroxide | Reproductive effects have been observed in experimental animals. |

**Teratogenicity:**

No data available concerning teratogenicity

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

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| Tertiary Amine | Category 3 | | Respiratory tract irritation |
| | Category 2 | | Eyes |

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

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Tertiary Amine | Category 2 | | Spleen, liver, brain |

**Aspiration hazard:** Not available.

**Information on the likely routes of exposure:** Not available.

**Potential acute health effects**

**Eye contact:** Causes serious eye damage

**Inhalation:** May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products my cause health hazard. Serious effects may be delayed following exposure.

**Skin contact:** Causes severe burns. May cause an allergic skin reaction.

**Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach.

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

**Eye contact:** Adverse symptoms may include the following:
Pain, watering, redness

**Inhalation:** No specific data.

**Skin contact:** Adverse symptoms may include the following:
Pain or irritation, redness, blistering may occur

**Ingestion:** Adverse symptoms may include the following:
Stomach pains

**Delayed and immediate effects and also chronic effects from short and long-term exposure:**

**Short term exposure:**

**Potential immediate effects:** Not available

**Potential delayed effects:** Not available

**Long term exposure:**

**Potential immediate effects:** Not available

**Potential delayed effects:** Not available

**Potential chronic health effects:**

| Product/ingredient name | Test | Endpoint | Species | Result |
|---|---|---|---|---|
| Tertiary Amine | OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/Develop-mental Toxicity Screening Test | Sub-chronic NOAEL Oral | Rat – Male, Female | 15 mg/kg |

**General**: Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** Suspected of damaging the unborn child.

**Developmental effects:** No known significant effects or critical hazards.

**Fertility effects:** Suspected of damaging fertility.

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

| Product/ingredient name | Endpoint | Exposure | Species | Result (mg/l) |
|---|---|---|---|---|
| Dialkyletherpolyamine | Acute EC50 | 48 hours | Daphnia | 15 |
| | Acute IC50 | 72 hours | Algae | 135 |
| | Acute LC50 | 96 hours | Fish | >100 |
| Tertiary Amine | LC50 | 24 hours | Rainbow trout | 222 |
| | LC100 | 96 hours | Rainbow trout | 240 |
| | LC0 | 96 hours | Rainbow trout | 180 |
| | LC50 | 24 hours | Carp | 249 |
| | LC50 | 96 hours | Carp | 175 |
| | EC50 | 96 hours | Grass shrimp | 718 |
| | EC100 | 96 hours | Mud crab | 1,000 |
| | EC0 | 96 hours | Mud crab | 750 |
| | EC50 | 72 hours | Scenedesmus subspicatus | 84 |
| | NOEC | 72 hours | Scenedesmus subspicatus | 6.25 |
| Aromatic Hydroxide | Acute LC50 | 96 hours | Fish | 10 |
| | Acute EC50 | 24 hours | Daphna | 55 |
| Trimethylcycloaliphaticdiamine | Acute LC50 | | Daphna | 17.4 |

**Persistence and Degradability**

| Product/ingredient name | Test | Period | Result |
|---|---|---|---|
| Tertiary Amine | OECD 301D Ready Biodegradability - Closed Bottle Test | 28 days | 4% |

**Conclusion/Summary:** Amines, coco alkyl Readily biodegradable

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| Tertiary Amine | - | - | Not readily |

**Bioaccumulative potential**

| Product/ingredient name | $LogP_{OW}$ | BCF | Potential |
|---|---|---|---|
| Tertiary Amine | 0.219 | - | Low |

**Mobility in soil:** Not available.

**Other Adverse Effects:** No known significant effects or critical hazards

**Other ecological information:**

**BOD5** Not determined

| | |
|---|---|
| **COD** | Not determined |
| **TOC** | Not determined |

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Recommendation:**

The generation of waste should be avoided or minimized wherever possible. 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 authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some 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.

Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.

ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. I F IN DOUBT, CONTACT PROPER AGENCIES.

**Uncleaned Packaging**

Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean without proper instructions. Empty drums should be drained and stored safely for reconditioning or recycling.

**Recommendation:**

Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

| | |
|---|---|
| **US DEPARTMENT of TRANSPORTION (DOT) Proper Shipping Name:** | Amines, liquid, corrosive, n.o.s. (Trimethylcycloaliphaticdiamine, Dialkyletherpolyamine) |
| **Class:** | 8 |
| **UN #:** | UN2735 |
| **Packing Group:** | III |
| **Additional Information:** | |
| **INTERNATIONAL AIR TRANSPORTATION Proper Shipping Name (ICAO/IATA):** | Amines, liquid, corrosive, n.o.s. (Trimethylcycloaliphaticdiamine, Dialkyletherpolyamine) |

| | |
|---|---|
| **Class:** | 8 |
| **UN #:** | UN2735 |
| **Packing Group:** | III |

| | |
|---|---|
| **CANADA Transportation of Dangerous Goods (TDG) Proper Shipping Name:** | Amines, liquid, corrosive, n.o.s. (Trimethylcycloaliphaticdiamine, Dialkyletherpolyamine) |
| **Class:** | 8 |
| **UN #:** | UN2735 |
| **Packing Group:** | III |

| | |
|---|---|
| **IMDG Proper Shipping Name:** | Amines, liquid, corrosive, n.o.s. (Trimethylcycloaliphaticdiamine, Dialkyletherpolyamine) |
| **Class** | 8 |
| **UN #:** | UN2735 |
| **Packing Group:** | III |
| **Additional Information:** | (EmS) F-A, S-B |

## SECTION 15: REGULATORY INFORMATION

**CHEMICAL INVENTORIES**

| | |
|---|---|
| **US (TSCA):** | The components of this product are in compliance with the chemical notification requirements of TSCA. |
| **WHMIS Classification:** | D2B: Material causing other toxic effects (Toxic).<br>Class E: Corrosive material. |
| **UNITED STATES:** | This SDS has been prepared to meet the US OSHA Hazard Communication Standard, 29 CFR 1910.1200 |
| **SARA 311/312:** | Immediate (acute) health hazard, Delayed (chronic) health hazard. |
| **SARA 313:** | No ingredients listed. |

**STATE REGULATIONS**

| | |
|---|---|
| **Massachusetts** | None required. |
| **New Jersey** | None required. |
| **Pennsylvania** | None required. |
| **California**<br>**California Prop 65:** | This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute. |

## SECTION 16: OTHER INFORMATION

| | |
|---|---|
| **Label requirements:** | The customer is responsible for determining the PPE code for this material |

**Hazardous Material Information System III (U.S.A.):**

| | |
|---|---|
| **Health** | **3** |
| **Flammability** | **1** |
| **Physical Hazards** | **0** |
| **PPE** | |

| | |
|---|---|
| **Disclaimer:** | The information contained in this document applies to the specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for one's own particular use. |