

**Issue date** 18-May-2018

**Revision date** 17-Mar-2020

**Revision Number** 3

## 1. IDENTIFICATION

### Product identification

|                               |                                      |
|-------------------------------|--------------------------------------|
| Product identifier            | Rotanium ETP Gold Metal Cutting Foam |
| Other means of identification | P91016                               |
| Recommended use               | Lubricant                            |
| Restrictions on use           | For industrial use only              |

### Supplier

Corporate Headquarters:  
Lawson Products, Inc.  
8770 W. Bryn Mawr Ave., Suite 900  
Chicago, IL 60631  
(866) 837-9908

Canadian Distribution Center:  
Lawson Canada  
7315 Rapistan Court  
Mississauga, ON L5N 5Z4  
(800) 323-5922

**24 Hour Emergency Phone Number** (888) 426-4851 (Prosar)

**Website** <https://www.lawsonproducts.com>

## 2. HAZARD(S) IDENTIFICATION

**Hazard Classification** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS 2015 and GHS Regulations.

|                                   |                |
|-----------------------------------|----------------|
| Skin corrosion/irritation         | Category 2     |
| Serious eye damage/eye irritation | Category 2A    |
| Carcinogenicity                   | Category 2     |
| Flammable aerosols                | Category 1     |
| Gases under pressure              | Compressed gas |

### Symbol



**Signal word** DANGER

**Hazard statements**  
H222 - Extremely flammable aerosol  
H280 - Contains gas under pressure; may explode if heated  
H319 - Causes serious eye irritation  
H351 - Suspected of causing cancer

H315 - Causes skin irritation

**Precautionary statements****General**

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P103 - Read label before use.

**Prevention**

P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 - Do not spray on an open flame or other ignition source  
 P251 - Pressurized container: Do not pierce or burn, even after use  
 P264 - Wash hands thoroughly after handling  
 P281 - Use personal protective equipment as required  
 P280 - Wear protective gloves/protective clothing and eye/face protection

**Response****General**

P314 - Get medical advice/attention if you feel unwell.  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention

**Eyes**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention

**Skin**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P362 - Take off contaminated clothing and wash before reuse  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention

**Storage**

P405 - Store locked up  
 P410 - Protect from sunlight  
 P412 - Do not expose to temperatures exceeding 50 °C/122 °F  
 P403 - Store in a well-ventilated place

**Disposal**

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Hazard(s) Not Otherwise Classified (HNOC)**

None known.

**Physical Hazards Not Otherwise Classified (PHNOC)**

None known.

**Unknown acute toxicity**

unknown toxicity: 2.4% inhalation, 27.4%dermal, 27.4% oral.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Composition**

Mixture.

| Chemical name   | CAS-No   | Weight % |
|-----------------|----------|----------|
| Dimethyl Ether  | 115-10-6 | 25       |
| Alkylamine Salt | N/A      | 2.38     |
| Triethanolamine | 102-71-6 | 2.1      |
| Diethanolamine  | 111-42-2 | 0.3      |

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

#### 4. FIRST-AID MEASURES

##### Necessary first-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. If necessary, call a poison center or physician. 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 maybe delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Ingestion</b>  | 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.                          |
| <b>Skin contact</b>   | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.   |
| <b>Most important symptoms (acute)</b>  | Causes serious eye irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Irritating to mouth, throat and stomach.  |
| <b>Most important symptoms (over-exposure)</b>                                    | Adverse symptoms may include the following: eye pain, redness, and watering. Respiratory tract irritation. Coughing.  |
| <b>Indication of any immediate medical attention and special treatment needed</b> | In case of inhalation of decomposition products in a fire, symptoms maybe delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.   |

#### 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>                   | Use an extinguishing agent suitable for the surrounding fire.  |
| <b>Unsuitable extinguishing media</b>                 | None known.  |
| <b>Specific hazards</b>                               | Extremely Flammable Aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may cause fire or explosion hazard. Hazardous Thermal Decomposition Products: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). |
| <b>Special protective equipment for fire-fighters</b> | 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. Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering the area. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in the hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information for 'non-emergency personnel'. 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).

### Methods and materials for containment and cleaning up

**Small Spill:** Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry in sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Use spark-proof tools and explosion proof equipment. See section 1 for emergency contact information and section 13 for disposal information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not take internally. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. 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.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all sources of ignition. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Chemical name   | OSHA PEL (TWA) | ACGIH OEL (TWA)                 | NIOSH - TWA                           |
|-----------------|----------------|---------------------------------|---------------------------------------|
| Dimethyl Ether  | -              | -                               | -                                     |
| Alkylamine Salt | -              | -                               | -                                     |
| Triethanolamine | -              | 5 mg/m <sup>3</sup> TWA         | -                                     |
| Diethanolamine  | -              | 1 mg/m <sup>3</sup> TWA<br>Skin | 3 ppm TWA<br>15 mg/m <sup>3</sup> TWA |

### Appropriate engineering

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or

**controls**

mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. 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.

**Individual protection measures, such as personal protective equipment****Eye 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 or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin and body protection**

Chemical-resistant, impervious gloves (Nitrile or Viton) 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 the 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. 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. 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, particulate filter 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.

**Hygiene measures**

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Canadian Province Occupational Exposure Limits**

| Chemical name   | AB                         | BC                         | MB                         | NB  | NL                         | NS                         | ON   | PE                         | QC  | SK                         |
|-----------------|----------------------------|----------------------------|----------------------------|---|----------------------------|----------------------------|--|----------------------------|---|----------------------------|
| Dimethyl Ether  | -                          | 1000 ppm<br>TWA            | -                          | -   | -                          | -                          | -  | -                          | -   | -                          |
| Alkylamine Salt | -                          | -                          | -                          | -   | -                          | -                          | -  | -                          | -   | -                          |
| Triethanolamine | 5 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA                    | 5 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA | 0.5 ppm<br>TWA<br>3.1 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA | 5 mg/m <sup>3</sup><br>TWA                  | 5 mg/m <sup>3</sup><br>TWA |
| Diethanolamine  | 2 mg/m <sup>3</sup><br>TWA | 2 mg/m <sup>3</sup><br>TWA | 1 mg/m <sup>3</sup><br>TWA | 0.46 ppm<br>TWA<br>2 mg/m <sup>3</sup><br>TWA | 1 mg/m <sup>3</sup><br>TWA | 1 mg/m <sup>3</sup><br>TWA | 1 mg/m <sup>3</sup><br>TWA                     | 1 mg/m <sup>3</sup><br>TWA | 3 ppm<br>TWA<br>13 mg/m <sup>3</sup><br>TWA | 2 mg/m <sup>3</sup><br>TWA |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical state**

Liquid

|  |  |
|--|--|
| <b>Odor</b>                                    | Not available  |
| <b>Odor threshold</b>                          | Not available  |
| <b>pH</b>                                      | 7  |
| <b>Melting point/range °C</b>                  | Not available  |
| <b>Melting point/range °F</b>                  | Not available  |
| <b>Boiling point/range °C</b>                  | Not available  |
| <b>Boiling point/range °F</b>                  | Not available  |
| <b>Flash point °C</b>                          | -29  |
| <b>Flash point °F</b>                          | -20.2  |
| <b>Flash point method used</b>                 | Pensky-Martens C.C.  |
| <b>Evaporation rate</b>                        | 0.09 (Butyl Acetate = 1)   |
| <b>Flammability (Solid, Gas)</b>               | Not available  |
| <b>Lower explosion limit</b>                   | 3.4 %  |
| <b>Upper explosion limit</b>                   | 27 %   |
| <b>Vapor pressure</b>                          | 101.3 kPa( 760 mm Hg)  |
| <b>Vapor density</b>                           | 1(Air=1)   |
| <b>Relative density</b>                        | 0.89   |
| <b>Solubility</b>                              | Not available  |
| <b>Partition coefficient (n-octanol/water)</b> | Not available  |
| <b>Autoignition temperature °C</b>             | Not available  |
| <b>Autoignition temperature °F</b>             | Not available  |
| <b>Decomposition temperature °C</b>            | Not available  |
| <b>Decomposition temperature °F</b>            | Not available  |
| <b>Viscosity</b>                               | Kinematic (40°C (104°F)): >0.07cm <sup>2</sup> /s (>7 cSt)<br>Kinematic (room temperature): >0.205cm <sup>2</sup> /s (>20.5 cSt) |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients. |
| <b>Chemical stability</b>                 | Stable.  |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.            |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, and other sources of ignition.   |
| <b>Incompatible materials</b>             | No specific data.  |

**Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure** Dermal. Inhalation. Ingestion. Eyes.

**Symptoms** Causes serious eye irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Irritating to mouth, throat and stomach. Adverse symptoms may include the following: eye pain, redness, and watering. Coughing. Respiratory tract irritation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure** Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

### Numerical measures of toxicity

| Chemical name   | Inhalation LC50: | Dermal LD50:  | Oral LD50:  |
|-----------------|------------------|---|---|
| Dimethyl Ether  | 164000 ppm Rat   | -   | -   |
| Alkylamine Salt | -                | -   | -   |
| Triethanolamine | -                | = 4190 mg/kg Rat<br>>20000 mg/kg Rabbit                 | 4190 mg/kg Rat<br>> 16 mL/kg Rat > 20000 mg/kg Rabbit       |
| Diethanolamine  | -                | = 620 µL/kg Rat<br>= 780 mg/kg Rat<br>11.9 mL/kg Rabbit | 780 mg/kg Rat<br>= 11.9 mL/kg Rabbit<br>= 7640 µL/kg Rabbit |

**ATEmix (dermal)** Not available

**ATEmix (oral)** Not available

**ATEmix (inhalation-gas)** Not available

**ATEmix (inhalation-vapor)** Not available

**ATEmix (inhalation-dust/mist)** Not available

### Carcinogenicity

| Chemical name   | ACGIH OEL - Carcinogens | IARC     | OSHA Carcinogens | NTP |
|-----------------|-------------------------|----------|------------------|-----|
| Dimethyl Ether  | -                       | -        | -                | -   |
| Alkylamine Salt | -                       | -        | -                | -   |
| Triethanolamine | -                       | Group 3  | -                | -   |
| Diethanolamine  | A3                      | Group 2B | Present          | -   |

### Canadian Province carcinogenicity limits

| Chemical name  | Alberta - Carcinogen | British Columbia - Carcinogen | Manitoba - Carcinogen | New Brunswick - Carcinogen | Nova Scotia - Carcinogen | Quebec - Carcinogen |
|----------------|----------------------|-------------------------------|-----------------------|----------------------------|--------------------------|---------------------|
| Dimethyl Ether | -                    | -                             | -                     | -                          | -                        | -                   |

| Chemical name   | Alberta - Carcinogen | British Columbia - Carcinogen | Manitoba - Carcinogen | New Brunswick - Carcinogen | Nova Scotia - Carcinogen | Quebec - Carcinogen |
|-----------------|----------------------|-------------------------------|-----------------------|----------------------------|--------------------------|---------------------|
| Alkylamine Salt | -                    | -                             | -                     | -                          | -                        | -                   |
| Triethanolamine | -                    | -                             | -                     | -                          | -                        | -                   |
| Diethanolamine  | -                    | IARC 2B                       | ACGIH A3              | -                          | ACGIH A3                 | -                   |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical name   | Algae/aquatic plants  | Fish LC50   |
|-----------------|---|---|
| Dimethyl Ether  | -   | > 4.1g/L <i>Poecilia reticulata</i> 96h   |
| Alkylamine Salt | -   | -   |
| Triethanolamine | =216mg/L <i>Desmodesmus subspicatus</i> 72h<br>=169mg/L <i>Desmodesmus subspicatus</i> 96h              | 10600 - 13000mg/L <i>Pimephales promelas</i> 96h 450<br>- 1000mg/L <i>Lepomis macrochirus</i> 96h > 1000mg/L<br><i>Pimephales promelas</i> 96h    |
| Diethanolamine  | 2.1 - 2.3mg/L <i>Pseudokirchneriella subcapitata</i> 96h<br>=7.8mg/L <i>Desmodesmus subspicatus</i> 72h | 1200 - 1580mg/L <i>Pimephales promelas</i><br>96h 4460 - 4980mg/L <i>Pimephales promelas</i> 96h<br>600 - 1000mg/L <i>Lepomis macrochirus</i> 96h |

**Persistence and degradability** Not available.

### Bioaccumulation

| Chemical name               | CAS-No   | Partition coefficient (log Kow) | Bioconcentration factor (BCF)   |
|-----------------------------|----------|---------------------------------|---------------------------------|
| Dimethyl Ether<br>115-10-6  | 115-10-6 | -0.18                           | -                               |
| Alkylamine Salt<br>N/A      | N/A      | -                               | -                               |
| Triethanolamine<br>102-71-6 | 102-71-6 | -2.53                           | <3.9 BCF method: OECD 305C      |
| Diethanolamine<br>111-42-2  | 111-42-2 | -2.18 at 25 °C                  | no significant bioconcentration |

**Mobility in soil** Not available.

**Other adverse effects** No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

### Disposal information

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

### Contaminated packaging

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its containers must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate.

## 14. TRANSPORTATION INFORMATION

### Shipping Descriptions

**DOT**

ID-No UN1950  
 Proper shipping name Aerosols  
 Hazard Class(es) 2.1  
 Packing group  
 Special Provisions LTD QTY

**TDG**

ID-No UN1950  
 Proper shipping name Aerosols  
 Hazard Class(es) 2.1  
 Packing group  
 Marine pollutant No.  
 Special Provisions LTD QTY

**IATA**

ID-No UN1950  
 Proper shipping name Aerosols, flammable  
 Hazard Class(es) 2.1  
 Subsidiary Risk  
 Packing group  
 Special Provisions LTD QTY

**IMDG/IMO**

ID-No UN1950  
 Proper shipping name Aerosols  
 Hazard Class(es) 2.1  
 Packing group  
 EmS No F-D, S-U  
 Marine pollutant No  
 Special Provisions LTD QTY

**Marine Pollutants**

| Chemical name   | CAS-No   | USDOT Marine Pollutant | Canada TDG Marine Pollutant | IMDG Marine Pollutant |
|-----------------|----------|------------------------|-----------------------------|-----------------------|
| Dimethyl Ether  | 115-10-6 | -                      | -                           | -                     |
| Alkylamine Salt | N/A      | -                      | -                           | -                     |
| Triethanolamine | 102-71-6 | -                      | -                           | -                     |
| Diethanolamine  | 111-42-2 | -                      | -                           | -                     |

**Special Precautions**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**State regulations****U.S. state Right-to-Know regulations**

| Chemical name   | CAS-No   | Massachusetts - RTK | New Jersey - RTK | Pennsylvania - RTK |
|-----------------|----------|---------------------|------------------|--------------------|
| Dimethyl Ether  | 115-10-6 | X                   | X                | X                  |
| Alkylamine Salt | N/A      | -                   | -                | -                  |

| Chemical name   | CAS-No   | Massachusetts - RTK | New Jersey - RTK | Pennsylvania - RTK |
|-----------------|----------|---------------------|------------------|--------------------|
| Triethanolamine | 102-71-6 | X                   | X                | X                  |
| Diethanolamine  | 111-42-2 | X                   | X                | X                  |

**California Prop. 65**

WARNING: This product contains a chemical(s) known to the state of California to cause cancer

| Chemical name   | CAS-No   | California Prop. 65 |
|-----------------|----------|---------------------|
| Dimethyl Ether  | 115-10-6 | -                   |
| Alkylamine Salt | N/A      | -                   |
| Triethanolamine | 102-71-6 | -                   |
| Diethanolamine  | 111-42-2 | Carcinogen          |

**U.S. Federal Regulations**

**US EPA SARA 313**

| Chemical name   | CAS-No   | CERCLA/SARA Hazardous Substances RQ | SARA 313 - Threshold Values |
|-----------------|----------|-------------------------------------|-----------------------------|
| Dimethyl Ether  | 115-10-6 | -                                   | -                           |
| Alkylamine Salt | N/A      | -                                   | -                           |
| Triethanolamine | 102-71-6 | -                                   | -                           |
| Diethanolamine  | 111-42-2 | 100 lb<br>45.4 kg                   | 1.0 %                       |

**US EPA SARA 311/312 hazardous categorization**

Not available

**TSCA and Canadian Inventories**

| Chemical name   | Inventory - United States - Section 8(b) Inventory (TSCA) | U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification | DSL | NDSL |
|-----------------|---|--|-----|------|
| Dimethyl Ether  | X   | -  | X   | -    |
| Alkylamine Salt | -   | -  | -   | -    |
| Triethanolamine | X   | -  | X   | -    |
| Diethanolamine  | X   | -  | X   | -    |

Legend X - Listed

**16. OTHER INFORMATION**

**NFPA**

Health Not available  
 Flammability Not available  
 Instability Not available

**HMIS**

Health 2 \*  
 Flammability 3  
 Physical hazards 3

**Personal protection** To be determined by customer.

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

**Prepared by** Regulatory Affairs

**Issue date** 18-May-2018

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#### Revision note

#### Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)  
ATE (Average Toxicity Estimate)  
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)  
HMIS (Hazardous Materials Identification System)  
IARC (International Agency for Research on Cancer)  
IATA (International Air Transport Association)  
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)  
NFPA (National Fire Protection Association)  
NTP (National Toxicology Program)  
OEL (Occupational Exposure Level)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
PEL (Permissible Exposure Limit)  
TSCA (Toxic Substance Control Act)  
USEPA (United States Environmental Protection Agency)

#### Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

**End of Safety Data Sheet**