



**Precautionary Statements****Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use only outdoors or in a well-ventilated area.

**General Advice**

- Immediately call a POISON CENTER or doctor/physician.

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Storage**

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

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life. Toxic to aquatic life with long lasting effects

11% of the mixture consists of ingredient(s) of unknown toxicity.

|  |  |  |  |
|--|--|--|--|
| <b>3. COMPOSITION / INFORMATION ON INGREDIENTS</b> |  |  |  |
|--|--|--|--|

| Chemical Name       | CAS-No    | Weight % | Trade secret |
|---------------------|-----------|----------|--------------|
| Triethanolamine     | 102-71-6  | 10-30    | ·            |
| Polyether phosphate | -         | 3-7      | ·            |
| Ethanolamine        | 141-43-5  | 3-7      | ·            |
| Sodium pyridithione | 3811-73-2 | 0.1-1    | ·            |

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

|                              |
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| <b>4. FIRST AID MEASURES</b> |
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**Description of necessary first-aid measures**

|                                   |   |
|-----------------------------------|---|
| <b>Eye Contact</b>                | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately. |
| <b>Skin Contact</b>               | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Poison Control Center immediately.                       |
| <b>Inhalation</b>                 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Call a physician or Poison Control Center immediately.   |
| <b>Ingestion</b>                  | Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center immediately.   |
| <b>Protection of First-aiders</b> | Use personal protective equipment. Avoid contact with skin, eyes and clothing.  |

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects** Dizziness. Serious eye irritation or damage, Burn, Drowsiness, Irritation.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

|                                  |
|----------------------------------|
| <b>5. FIRE-FIGHTING MEASURES</b> |
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**Suitable Extinguishing Media**

Use: Carbon dioxide (CO<sub>2</sub>). Water spray. Dry chemical. Foam.

|                                       |  |
|---------------------------------------|--|
| <b>Unsuitable Extinguishing Media</b> | Do not use a solid water stream as it may scatter and spread fire. |
|---------------------------------------|--|

**Specific Hazards Arising from the Chemical**

Flammable. Vapors may form explosive mixtures with air. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may travel to source of ignition and flash back.

**Explosion Data**

|   |       |
|---|-------|
| <b>Sensitivity to Mechanical Impact</b> | None. |
| <b>Sensitivity to Static Discharge</b>  | Yes.  |

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

|                                       |
|---------------------------------------|
| <b>6. ACCIDENTAL RELEASE MEASURES</b> |
|---------------------------------------|

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged packages or spilled material. Do not get in eyes, on skin, or on clothing. Wear protective gloves/clothing and eye/face protection.

**Environmental Precautions****Environmental Precautions**

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. Collect spillage.

**Methods and materials for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for Cleaning Up**

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use personal protective equipment. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Handling**

Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Wear personal protective equipment. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep container tightly closed. Store in original container. Keep locked-up.

**Incompatible Products**

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

| Chemical Name               | ACGIH TLV                | OSHA PEL  | NIOSH IDLH  |
|-----------------------------|--------------------------|---|---|
| Triethanolamine<br>102-71-6 | TWA: 5 mg/m <sup>3</sup> | -   | -   |
| Ethanolamine<br>141-43-5    | STEL: 6 ppm TWA: 3 ppm   | TWA: 3 ppm TWA: 6 mg/m <sup>3</sup><br>(vacated) TWA: 3 ppm (vacated)<br>TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6<br>ppm (vacated) STEL: 15 mg/m <sup>3</sup> | IDLH: 30 ppm TWA: 3 ppm TWA:<br>8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15<br>mg/m <sup>3</sup> |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles. Face-shield.  
**Skin and Body Protection** Wear protective gloves/clothing.  
**Respiratory Protection I** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|   |                   |                          |                          |
|---|-------------------|--------------------------|--------------------------|
| <b>Physical State</b>                         | Liquid            | <b>Appearance</b>        | Dark blue                |
| <b>Odor</b>                                   | Mild              | <b>Odor Threshold</b>    | No information available |
| <b>Property</b>                               | <b>Values</b>     | <b>Remarks/ - Method</b> |                          |
| pH  | 9.8               | at 10%                   |                          |
| <b>Melting Point/Range</b>                    | No data available | None known               |                          |
| <b>Boiling Point/Boiling Range</b>            | 100 °C / 212 °F   | None known               |                          |
| <b>Flash Point</b>                            | >93 °C / >200 °F  | PMCC                     |                          |
| <b>Evaporation rate</b>                       | <1                | None known               |                          |
| <b>Flammability (solid, gas)</b>              | No data available | None known               |                          |
| <b>Flammability Limits in Air</b>             |                   |                          |                          |
| upper flammability limit                      | No data available |                          |                          |
| lower flammability limit                      | No data available |                          |                          |
| <b>Vapor Pressure</b>                         | No data available | None known               |                          |
| <b>Vapor Density</b>                          | >1                | None known               |                          |
| <b>Specific Gravity</b>                       | 1.07              | None known               |                          |
| <b>Water Solubility</b>                       | Soluble in water. | None known               |                          |
| <b>Solubility in other solvents</b>           | No data available | None known               |                          |
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known               |                          |
| <b>Autoignition Temperature</b>               | No data available | None known               |                          |
| <b>Decomposition Temperature</b>              | No data available | None known               |                          |
| <b>Viscosity</b>                              | No data available | None known               |                          |
| <b>Flammable Properties</b>                   | Not flammable     |                          |                          |
| <b>Explosive Properties</b>                   | No data available |                          |                          |
| <b>Oxidizing Properties</b>                   | No data available |                          |                          |

**Other information****VOC Content (%)**

No data available

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

Carbon oxides, Nitrogen oxides (NOx).

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation**

May cause irritation of respiratory tract. May cause drowsiness and dizziness.

**Eye Contact**

Causes serious eye damage.

**Skin Contact**

Causes severe skin burns.

**Ingestion**

Ingestion causes burns of the upper digestive and respiratory tract.

**Component Information**

| Chemical Name   | LD50 Oral           | LD50 Dermal                                | LC50 Inhalation |
|-----------------|---------------------|--|-----------------|
| Water           | 90 mL/kg ( Rat)     | -  | -               |
| Triethanolamine | = 4190 mg/kg ( Rat) | > 2000 mg/kg ( Rabbit) > 16 mL/kg ( Rat)   | -               |
| Ethanolamine    | = 1720 mg/kg ( Rat) | = 1 mL/kg ( Rabbit) = 1025 mg/kg ( Rabbit) | -               |

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

Irritation: Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes..

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

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name   | ACGIH | IARC    | NTP | OSHA |
|-----------------|-------|---------|-----|------|
| Triethanolamine |       | Group 3 |     |      |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

None

**IARC: (International Agency for Research on Cancer)**

Group 3

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Reproductive Toxicity**

No information available.

**STOT - single exposure**

May cause respiratory irritation.

**STOT - repeated exposure**

No information available.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity – Product****Acute Toxicity**

11% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

LD50 Oral

10310 mg/kg; Acute toxicity estimate

LD50 Dermal

15169 mg/kg; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic life with long lasting effects.

| Chemical Name            | Toxicity to Algae  | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea)                |
|--------------------------|--|--|----------------------------|---|
| Triethanolamine 102-71-6 | EC50 72 h: = 216 mg/L<br>(Desmodesmus subspicatus) EC50<br>96 h: = 169 mg/L (Desmodesmus<br>subspicatus) | LC50 96 h: 10600- 13000 mg/L<br>flow-through (Pimephales<br>promelas) LC50 96 h: > 1000 mg/L<br>static (Pimephales promelas) LC50<br>96 h: 450 - 1000 mg/L static<br>(Lepomis macrochirus) |                            | EC50 24 h: = 1386 mg/L (Daphnia<br>magna) |

|                               |   |   |  |   |
|-------------------------------|---|---|--|---|
| Ethanolamine 141-43-5         | EC50 72 h: = 15 mg/L<br>(Desmodesmus subspicatus) | LC50: 227 mg/L Pimephales<br>promelas 96 h flow-through LC50:<br>3684 mg/L Brachydanio rerio 96 h<br>static LC50: 300-1000 mg/L<br>Lepomis macrochirus 96 h static<br>LC50: 114-196 mg/L Oncorhynchus<br>mykiss 96 h static<br>LC50: >200 mg/L Oncorhynchus<br>mykiss 96 h flow-through | EC50 = 110 mg/L 17 h EC50 =<br>12200 mg/L 2 h EC50 = 13.7 mg/L<br>30 min | EC50 48 h: = 65 mg/L (Daphnia<br>magna) |
| Sodium pyridithione 3811-73-2 |   |   |  | EC50 48 h: = 0.022 mg/L (water<br>flea) |

**Persistence and Degradability**  
**Bioaccumulation**

No information available.  
No information available.

| Chemical Name   | Log Pow |
|-----------------|---------|
| Triethanolamine | -2.53   |
| Ethanolamine    | -1.91   |

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

|            |                |
|------------|----------------|
| <b>DOT</b> | Not regulated  |
| <b>TDG</b> | Not regulated. |
| <b>MEX</b> | Not regulated  |

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42):

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name  | CAS-No   | California Prop. 65   |
|----------------|----------|---|
| Diethanolamine | 111-42-2 | Carcinogen  |
| Ethylene oxide | 75-21-8  | Carcinogen Developmental Female<br>Reproductive Male Reproductive |

**U.S. State Right-to-Know Regulations**

| Chemical Name   | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|-----------------|------------|---------------|--------------|----------|--------------|
| Triethanolamine | X          | X             | X            |          | X            |
| Ethanolamine    | X          | X             | X            | X        | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

|             |                        |                       |                          |  |
|-------------|------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazard 1</b> | <b>Flammability 1</b> | <b>Instability 0</b>     | <b>Physical and<br/>Chemical Hazards -<br/>Personal Protection X</b> |
| <b>HMIS</b> | <b>Health Hazard 1</b> | <b>Flammability 1</b> | <b>Physical Hazard 0</b> |  |

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**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**