



**Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Do not breathe dust.

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

Rinse mouth.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

| Chemical name                  | CAS No.    | Weight-% |
|--------------------------------|------------|----------|
| Monoethylene Glycol            | 107-21-1   | 30-60    |
| Potassium p-tert-Butylbenzoate | 16518-26-6 | 1-5      |
| Direct Blue 86                 | 1330-38-7  | <0.1     |
| Diethanolamine                 | 111-42-2   | <0.001   |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.   |
| <b>Eye Contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water for at least 15 minutes.   |
| <b>Inhalation</b>     | Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.                |
| <b>Ingestion</b>      | Call a poison center or doctor/physician if you feel unwell. Rinse mouth. If symptoms persist, call a physician.     |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Harmful if swallowed. Harmful if inhaled. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. |
|-----------------|--|

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Irritating vapors.

**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.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Strong acids. Strong oxidizers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

| Chemical name                   | ACGIH TLV  | OSHA PEL  | NIOSH   |
|---------------------------------|--|---|---|
| Monoethylene Glycol<br>107-21-1 | TWA: 25 ppm vapor fraction<br>STEL: 50 ppm vapor fraction<br>STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 mg/m <sup>3</sup> | -   |
| Direct Blue 86<br>1330-38-7     | TWA: 1 mg/m <sup>3</sup> Cu dust and mist  | -   | TWA: 1 mg/m <sup>3</sup> ; Cu dust and mist<br>IDLH: 100 mg/m <sup>3</sup> Cu dust and mist |
| Diethanolamine<br>111-42-2      | TWA: 1 mg/m <sup>3</sup> inhalable fraction and vapor<br>pSk   | (vacated) TWA: 3 ppm<br>(vacated) TWA: 15 mg/m <sup>3</sup>           | TWA: 3 ppm;<br>TWA: 15 mg/m <sup>3</sup> ;  |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

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

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                       |              |                       |                |
|-----------------------|--------------|-----------------------|----------------|
| <b>Physical state</b> | Liquid       | <b>Odor</b>           | Mild           |
| <b>Appearance</b>     | Green liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Green        |                       |                |

| <u>Property</u>                         | <u>Values</u>                     | <u>Remarks • Method</u> |
|---|-----------------------------------|-------------------------|
| pH                                      | 10-11                             |                         |
| Melting point / freezing point          | No data available                 |                         |
| Initial boiling point and boiling range | ~ 106 - 108 °C / 222.8 - 226.4 °F |                         |
| Flash point                             | > 110 °C / 230.0 °F               |                         |
| Evaporation rate                        | Not determined                    |                         |
| Flammability (Solid, Gas)               | Not determined                    |                         |
| Flammability Limit in Air               |                                   |                         |
| Upper flammability or explosive limits  | No data available                 |                         |
| Lower flammability or explosive limits  | No data available                 |                         |
| Vapor Pressure                          | Not determined                    |                         |
| Relative vapor density                  | No data available                 |                         |
| Relative Density                        | ~1.06 – 1.08                      |                         |
| Water Solubility                        | Completely miscible               |                         |
| Solubility in other solvents            | Not determined                    |                         |
| Partition Coefficient                   | Not determined                    |                         |
| Autoignition temperature                | No data available                 |                         |
| Decomposition temperature               | Not determined                    |                         |

|                                 |                   |
|---------------------------------|-------------------|
| <b>Kinematic viscosity</b>      | Not applicable    |
| <b>Dynamic viscosity</b>        | Not determined    |
| <b>Particle characteristics</b> | No data available |
| <b>Explosive Properties</b>     | Not determined    |
| <b>Oxidizing Properties</b>     | Not determined    |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible materials

Strong acids. Strong oxidizers.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                          |
|---------------------|--------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes. |
| <b>Skin Contact</b> | Avoid contact with skin. |
| <b>Inhalation</b>   | Harmful if inhaled.      |
| <b>Ingestion</b>    | Harmful if swallowed.    |

### Component Information

| Chemical name                    | Oral LD50            | Dermal LD50             | Inhalation LC50         |
|----------------------------------|----------------------|-------------------------|-------------------------|
| Monoethylene Glycol<br>107-21-1  | = 4700 mg/kg ( Rat ) | = 10600 mg/kg ( Rat )   | > 2.5 mg/L ( Rat ) 6 h  |
| Direct Blue 86<br>1330-38-7      | > 5 g/kg ( Rat )     | -                       | -                       |
| Diethanolamine<br>111-42-2       | = 780 mg/kg ( Rat )  | = 11.9 mL/kg ( Rabbit ) | > 3.35 mg/L ( Rat ) 4 h |
| Denatonium Benzoate<br>3734-33-6 | = 584 mg/kg ( Rat )  | > 2000 mg/kg ( Rat )    | = 0.2 mg/L ( Rat ) 4 h  |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Please see section 4 of this SDS for symptoms. |
|-----------------|--|

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** This product contains <0.1% of the component listed in the table below; therefore, the product is not classified as a carcinogen.

| Chemical name                   | ACGIH   | IARC                                       | NTP | OSHA    |
|---------------------------------|---|--|-----|---------|
| Monoethylene Glycol<br>107-21-1 | A4 - Not Classifiable as a Human Carcinogen                       |  |     |         |
| Diethanolamine<br>111-42-2      | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans | Group 2B - Possibly carcinogenic to humans |     | Present |

**Reproductive toxicity** May damage fertility or the unborn child.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

- ATEmix (oral) 1,000.00 mg/kg
- ATEmix (dermal) 21,200.00 mg/kg
- ATEmix (inhalation-dust/mist) 3.00 mg/L

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| Chemical name                   | Algae/aquatic plants   | Fish   | Crustacea                             |
|---------------------------------|--|--|---------------------------------------|
| Monoethylene Glycol<br>107-21-1 | EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)  | LC50: =41000mg/L (96h, Oncorhynchus mykiss)<br>LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss)<br>LC50: =27540mg/L (96h, Lepomis macrochirus)<br>LC50: =40761mg/L (96h, Oncorhynchus mykiss)<br>LC50: 40000 - 60000mg/L (96h, Pimephales promelas)<br>LC50: =16000mg/L (96h, Poecilia reticulata) | EC50: =46300mg/L (48h, Daphnia magna) |
| Diethanolamine<br>111-42-2      | EC50: =7.8mg/L (72h, Desmodemus subspicatus)<br>EC50: 2.1 - 2.3mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 4460 - 4980mg/L (96h, Pimephales promelas)<br>LC50: 1200 - 1580mg/L (96h, Pimephales promelas)<br>LC50: 600 - 1000mg/L (96h, Lepomis macrochirus)  | EC50: =55mg/L (48h, Daphnia magna)    |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name                   | Partition coefficient |
|---------------------------------|-----------------------|
| Monoethylene Glycol<br>107-21-1 | -1.36                 |
| Diethanolamine<br>111-42-2      | -2.46                 |

**Other adverse effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical name               | California Hazardous Waste Status |
|-----------------------------|-----------------------------------|
| Direct Blue 86<br>1330-38-7 | Toxic                             |

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

| Chemical name       | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AIIC |
|---------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Monoethylene Glycol | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Uranine K           | X    | ACTIVE                | X        | X              |      | X     |      |       | X    |
| Direct Blue 86      | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Diethanolamine      | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Denatonium Benzoate | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |

**Legend:**

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

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

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name                   | Hazardous Substances RQs       | Extremely Hazardous Substances RQs | Reportable Quantity (RQ)                   |
|---------------------------------|--------------------------------|------------------------------------|--|
| Monoethylene Glycol<br>107-21-1 | 5000 lb /<br>270 kg (final RQ) |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Diethanolamine<br>111-42-2      | 100 lb /<br>5.4 kg (final RQ)  |                                    | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

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

| Chemical name  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Direct Blue 86 |                             | X                      |                           |                            |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name                  | California Proposition 65 |
|--------------------------------|---------------------------|
| Monoethylene Glycol - 107-21-1 | Developmental             |
| Diethanolamine - 111-42-2      | Carcinogen                |

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

| Chemical name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Monoethylene Glycol<br>107-21-1 | X          | X             | X            |
| Direct Blue 86<br>1330-38-7     | X          |               | X            |
| Diethanolamine<br>111-42-2      | X          | X             | X            |

**16. OTHER INFORMATION****NFPA**  
**HMIS**Health hazards -  
Health hazards -Flammability -  
Flammability -Instability -  
Physical hazards -Special hazards -  
Personal protection -

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**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**