



**Precautionary Statements - Response**

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  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                           | CAS No     | Weight-%    |
|---|------------|-------------|
| Ethylene Glycol Monobutyl Ether         | 111-76-2   | Proprietary |
| Sodium Silicate                         | 1344-09-8  | Proprietary |
| Nonylphenoxy-poly-(Ethyleneoxy) Ethanol | 26027-38-3 | Proprietary |
| Sodium hydroxide                        | 1310-73-2  | Proprietary |

\*\*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

**First Aid Measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice. |
| <b>Skin Contact</b> | Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse.               |
| <b>Inhalation</b>   | Remove to fresh air. Call a physician immediately.  |
| <b>Ingestion</b>    | Dilute with milk or water. Neutralize by taking 2 tablespoons of vinegar.   |

**Most important symptoms and effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | Contact will cause irritation and redness to exposed areas. |
|-----------------|---|

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

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water. Foam. Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Not Applicable.

### 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.

### 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** Collect with dry sand, clay, or other absorbent. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Wash thoroughly after handling. Use personal protection recommended in Section 8. 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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

| Chemical Name                               | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|---|------------------------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm                  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup>   |
| Sodium hydroxide<br>1310-73-2               | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup>   | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls** Local exhaust ventilation recommended.

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

**Eye/Face Protection** Wear eye/face protection.

**Skin and Body Protection** Wear suitable gloves.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**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>           | Almond         |
| <b>Appearance</b>     | Purple liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Purple        |                       |                |

| <u>Property</u>              | <u>Values</u>      | <u>Remarks • Method</u> |
|------------------------------|--------------------|-------------------------|
| pH                           | 13                 |                         |
| Melting Point/Freezing Point | Not available      |                         |
| Boiling Point/Boiling Range  | 100 °C / 212 °F    |                         |
| Flash Point                  | None               |                         |
| Evaporation Rate             | Not available      |                         |
| Flammability (Solid, Gas)    | n/a-liquid         |                         |
| Upper Flammability Limits    | None               |                         |
| Lower Flammability Limit     | None               |                         |
| Vapor Pressure               | Not determined     |                         |
| Vapor Density                | Not available      |                         |
| Specific Gravity             | 1.06               | (1=Water)               |
| Water Solubility             | Completely soluble |                         |
| Solubility in other solvents | Not determined     |                         |
| Partition Coefficient        | Not determined     |                         |
| Auto-ignition Temperature    | Not determined     |                         |
| Decomposition Temperature    | Not determined     |                         |
| Kinematic Viscosity          | Not determined     |                         |
| Dynamic Viscosity            | Not determined     |                         |
| Explosive Properties         | Not determined     |                         |
| Oxidizing Properties         | 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.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible Materials

Strong acids.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**                      Causes severe eye damage.

**Skin Contact**                    Causes severe skin burns.

**Inhalation**                        Avoid breathing vapors or mists.

**Ingestion**                        Do not taste or swallow.

### Component Information

| Chemical Name  | Oral LD50            | Dermal LD50                                    | Inhalation LC50                                  |
|--|----------------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2              | = 470 mg/kg ( Rat )  | = 2270 mg/kg ( Rat ) = 220 mg/kg<br>( Rabbit ) | = 2.21 mg/L ( Rat ) 4 h = 450 ppm<br>( Rat ) 4 h |
| Sodium Silicate<br>1344-09-8                             | = 1153 mg/kg ( Rat ) | > 4640 mg/kg ( Rabbit )                        | -  |
| Nonylphenoxy-poly-(Ethyleneoxy)<br>Ethanol<br>26027-38-3 | -                    | = 1800 µL/kg ( Rabbit )                        | -  |
| Urea<br>57-13-6  | = 8471 mg/kg ( Rat ) | -  | -  |
| Sodium hydroxide<br>1310-73-2                            | -                    | = 1350 mg/kg ( Rabbit )                        | -  |

### Information on physical, chemical and toxicological effects

**Symptoms**                              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** Not classifiable as a human carcinogen.

| Chemical Name                               | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | A3    | Group 3 |     |      |

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 3 IARC components are "not classifiable as human carcinogens"

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| Chemical Name                               | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea   |
|---|----------------------|---|----------------------------|---|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 |                      | 1490: 96 h Lepomis macrochirus mg/L LC50 static<br>2950: 96 h Lepomis macrochirus mg/L LC50         |                            | 1698 - 1940: 24 h Daphnia magna mg/L EC50<br>1000: 48 h Daphnia magna mg/L EC50         |
| Sodium Silicate<br>1344-09-8                |                      | 301 - 478: 96 h Lepomis macrochirus mg/L LC50<br>3185: 96 h Brachydanio rerio mg/L LC50 semi-static |                            | 216: 96 h Daphnia magna mg/L EC50   |
| Urea<br>57-13-6                             |                      | 16200 - 18300: 96 h Poecilia reticulata mg/L LC50   |                            | 10000: 24 h Daphnia magna Straus mg/L EC50<br>3910: 48 h Daphnia magna mg/L EC50 Static |
| Sodium hydroxide<br>1310-73-2               |                      | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static   |                            |   |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

| Chemical Name                               | Partition Coefficient |
|---|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81                  |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment 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.

**US EPA Waste Number**

| Chemical Name  | RCRA | RCRA - Basis for Listing          | RCRA - D Series Wastes | RCRA - U Series Wastes |
|--|------|-----------------------------------|------------------------|------------------------|
| Nonylphenoxy poly-(Ethylene oxy) Ethanol<br>26027-38-3 |      | Included in waste stream:<br>K060 |                        |                        |

**California Hazardous Waste Status**

| Chemical Name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Sodium hydroxide<br>1310-73-2 | Toxic<br>Corrosive                |

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Not determined

**US Federal Regulations**

**CERCLA**

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|---|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**SARA 313**

| Chemical Name                              | CAS No   | Weight-%    | SARA 313 - Threshold Values % |
|--|----------|-------------|-------------------------------|
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 111-76-2 | Proprietary | 1.0                           |

**CWA (Clean Water Act)**

| Component                                     | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide<br>1310-73-2 ( Proprietary ) | 1000 lb                     |                        |                           | X                          |

**US State Regulations**

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

| Chemical Name                               | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | X          | X             | X            |
| Sodium hydroxide<br>1310-73-2               | X          | X             | X            |

**16. OTHER INFORMATION**

|                    |   |                                       |                                      |  |
|--------------------|---|---------------------------------------|--------------------------------------|--|
| <b><u>NFPA</u></b> | <b>Health Hazards</b><br>Not determined | <b>Flammability</b><br>Not determined | <b>Instability</b><br>Not determined | <b>Special Hazards</b><br>Not determined     |
| <b><u>HMIS</u></b> | <b>Health Hazards</b><br>2              | <b>Flammability</b><br>1              | <b>Physical Hazards</b><br>0         | <b>Personal Protection</b><br>Not determined |

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**Disclaimer**

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**End of Safety Data Sheet**