



## Challenge

### SECTION 1. IDENTIFICATION

|   |   |
|---|---|
| <b>Product Identifier</b>               | Challenge   |
| <b>Other Means of Identification</b>    | 6118  |
| <b>Other Identification</b>             | UN3266  |
| <b>Recommended Use</b>                  | Kitchen Degreaser, Decarbonizer.  |
| <b>Restrictions on Use</b>              | No information available.   |
| <b>Manufacturer/Supplier Identifier</b> | Sunburst Chemicals, Inc., 220 W. 86th St., Bloomington, MN, 55420, 952-884-3144 |
| <b>Emergency Phone No.</b>              | Emergency Telephone Number, 1-866-303-6943                                      |
| <b>SDS No.</b>                          | 0008  |

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1A; Serious eye damage - Category 1

#### Label Elements



Signal Word:  
Danger

#### Hazard Statement(s):

Harmful if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.

#### Precautionary Statement(s):

Prevention:  
Wash hands and skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### General Advice

IF exposed or concerned: Get medical attention/advice

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#### 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 CENTRE or doctor.

#### Skin

IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTRE or doctor if you feel unwell.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Storage:

Store locked up.

#### Disposal:

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

#### Other Hazards

Not applicable.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                                  | CAS No.    | %     | Other Identifiers | Other Names |
|--|------------|-------|-------------------|-------------|
| Water  | 7732-18-5  | 60-75 |                   |             |
| 2-Butoxyethanol                                | 111-76-2   | 2-7   |                   |             |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 68584-22-5 | 4-6   |                   |             |
| Potassium hydroxide                            | 1310-58-3  | 4-6   |                   |             |
| Sodium Xylene Sulfonate                        | 1300-72-7  | 1-5   |                   |             |
| Triethanolamine                                | 102-71-6   | 1-3   |                   |             |

#### Notes

##### PRODUCT AT USE DILUTION

Contains ingredients listed above at weight % less than 1.0%

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

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Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. Seek immediate medical attention/advice.

#### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek immediate medical attention/advice.

#### **Ingestion**

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediately call a Poison Centre or doctor.

#### **First-aid Comments**

Get medical advice or attention if you feel unwell or are concerned.

#### **Most Important Symptoms and Effects, Acute and Delayed**

None known.

#### **Immediate Medical Attention and Special Treatment**

##### **Special Instructions**

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

Not sensitive to static discharge.

Not sensitive to mechanical impact.

### **Special Protective Equipment and Precautions for Fire-fighters**

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

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

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Ensure adequate ventilation. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become slippery.

### **Environmental Precautions**

Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information. Dispose of contents/container to an approved waste disposal plant.

### **Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product.

Collect and reuse if possible. Following product recovery, flush area with water.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product, or its use solutions.

### **Conditions for Safe Storage**

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Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| Chemical Name       | ACGIH TLV®          |      | OSHA PEL            |                     | AIHA WEEL |     |
|---------------------|---------------------|------|---------------------|---------------------|-----------|-----|
|                     | TWA                 | STEL | TWA                 | Ceiling             | 8-hr TWA  | TWA |
| Triethanolamine     | 5 mg/m <sup>3</sup> |      | 6 mg/m <sup>3</sup> |                     |           |     |
| Potassium hydroxide | 2 mg/m <sup>3</sup> |      |                     | 2 mg/m <sup>3</sup> |           |     |
| 2-Butoxyethanol     | 20 ppm              |      | 50 ppm              |                     |           |     |

A5 = Not suspected as a human carcinogen.

### Appropriate Engineering Controls

Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Rubber or vinyl gloves recommended when handling solid chemicals or their use solutions.

#### Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

|  |  |
|--|--|
| Appearance                                       | Amber.   |
| Odour  | Solvent  |
| Odour Threshold                                  | Not available  |
| pH   | 13.2 - 14.0  |
| Melting Point/Freezing Point                     | Not available (melting); Not applicable (freezing)   |
| Initial Boiling Point/Range                      | 93 °C (200 °F)                                       |
| Flash Point                                      | Not available  |
| Evaporation Rate                                 | Not applicable                                       |
| Flammability (solid, gas)                        | Not applicable                                       |
| Upper/Lower Flammability or Explosive Limit      | Not applicable (upper); Not applicable (lower)       |
| Vapour Pressure                                  | Not applicable                                       |
| Vapour Density (air = 1)                         | Not applicable                                       |
| Relative Density (water = 1)                     | Not available  |
| Solubility                                       | Soluble in water; Not available (in other liquids)   |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not applicable                                       |
| Auto-ignition Temperature                        | Not applicable                                       |
| Decomposition Temperature                        | Not available  |
| Viscosity  | Not applicable (kinematic); Not applicable (dynamic) |
| Other Information                                |  |
| Physical State                                   | Liquid   |
| Use Dilution                                     | Use dilution pH is 12.0 - 13.0 pH                    |

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

None known.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

**Conditions to Avoid**

None known.

**Incompatible Materials**

None known.

**Hazardous Decomposition Products**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure**

Eye contact; skin contact.

**Acute Toxicity**

| Chemical Name                                  | LC50                              | LD50 (oral)      | LD50 (dermal)      |
|--|-----------------------------------|------------------|--------------------|
| Triethanolamine                                | Not available                     | 2200 mg/kg (rat) | > 2000 mg/kg (rat) |
| Potassium hydroxide                            | Not available                     | 273 mg/kg (rat)  | Not available      |
| Benzenesulfonic acid, C10-16-alkyl derivatives | Not available                     | 1470 mg/kg (rat) | > 2000 mg/kg (rat) |
| 2-Butoxyethanol                                | 2.21 mg/L (rat) (4-hour exposure) | 470 mg/kg (rat)  | 400 mg/kg (rabbit) |

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

**Skin Corrosion/Irritation**

Causes severe skin burns.

**Serious Eye Damage/Irritation**

Causes serious eye damage.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information available.

**Respiratory and/or Skin Sensitization**

No information available.

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## Carcinogenicity

| Chemical Name   | IARC    | ACGIH® | NTP | OSHA |
|-----------------|---------|--------|-----|------|
| 2-Butoxyethanol | Group 3 | A3     |     |      |

Group 3 – Not classifiable as to its carcinogenicity to humans.

A3 – Confirmed animal carcinogen.

## Reproductive Toxicity

### Development of Offspring

No information was located.

### Sexual Function and Fertility

No information was located.

### Effects on or via Lactation

No information was located.

## Germ Cell Mutagenicity

Not mutagenic.

## Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful, with long lasting effects to aquatic life, based on acute toxicity tests.

#### Acute Aquatic Toxicity

| Chemical Name                                  | LC50 Fish  | EC50 Crustacea                                  | ErC50 Aquatic Plants | ErC50 Algae   |
|--|--|---|----------------------|---|
| Triethanolamine                                | 11800 mg/L (Pimephales promelas (fathead minnow); 96-hour; static) | 1850 mg/L (Daphnia magna (water flea); 48-hour) | Not available        | 169 mg/L (Selenastrum capricornutum (algae); 96-hour) |
| Potassium hydroxide                            | 80 mg/L (96-hour)  | Not available                                   | Not available        | Not available   |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 0.97 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; static)   | 2.9 mg/L (Daphnia magna (water flea); 48-hour)  | Not available        | 0.97 mg/L (96-hour)                                   |
| 2-Butoxyethanol                                | 1490 mg/L (Lepomis macrochirus (bluegill); 96-hour)                | Not available                                   | Not available        | Not available   |

### Persistence and Degradability

No information available.

### Bioaccumulative Potential

No information available.

### Mobility in Soil

Studies are not available.

### Other Adverse Effects

There is no information available.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

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

## SECTION 14. TRANSPORT INFORMATION

| Regulation | UN No. | Proper Shipping Name   | Transport Hazard Class(es) | Packing Group |
|------------|--------|--|----------------------------|---------------|
| US DOT     | un3266 | Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide) | 8                          | II            |
| IMDG/IMO   | un3266 | Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide) | 8                          | II            |

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**Emergency Response Guide No.** 154

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

##### Additional USA Regulatory Lists

SARA Title III - Section 313:

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

| Chemical Name   | CAS-No   | Weight % | SARA 313 - Threshold Values % |
|-----------------|----------|----------|-------------------------------|
| 2-Butoxyethanol | 111-76-2 | 2-10     | 1.0.                          |

SARA Title III - Section 311/312:

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

California Proposition 65

This product contains no Proposition 65 chemicals.

U.S. EPA Label Information

EPA Registration Number : Not applicable.

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## 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):

CWA - Hazardous Substances :: (Potassium hydroxide)

CWA - Hazardous Substances :: (2-Butoxyethanol)

## 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):

Hazardous Substances RQs:

Potassium Hydroxide 1000 lb final RQ/ RQ 454 kg final RQ

2-Butoxyethanol 5000 lb final RQ/ RQ 2270 kg final RQ

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

New Jersey Right To Know:: (Potassium hydroxide)

Massachusetts Right To Know:: (Potassium hydroxide)

Pennsylvania Right To Know:: (Potassium hydroxide)

Rhode Island:: (Potassium hydroxide)

New Jersey Right To Know:: (2-Butoxyethanol)

Massachusetts Right To Know:: (2-Butoxyethanol)

Pennsylvania Right To Know:: (2-Butoxyethanol)

Illinois Right to Know:: (2-Butoxyethanol)

Rhode Island:: (2-Butoxyethanol)

Massachusetts Right To Know:: (Triethanolamine)

New Jersey Right To Know:: (Triethanolamine)

Pennsylvania Right To Know:: (Triethanolamine)

Rhode Island:: (Triethanolamine)

## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 3**      **Flammability - 1**                      **Instability - 0**

**SDS Prepared By**                      Sunburst Chemicals.

**Phone No.**                                      952-884-3144

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