



# SAFETY DATA SHEET

Issuing Date 30-Dec-2013

Revision Date 23-Jun-2016

Revision Number 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Matrix

### Other means of identification

Product Code(s) 7856

UN-Number UN3262

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Laundry detergent

Uses advised against No information available

### Supplier's details

#### Supplier Address

Sunburst Chemicals, Inc.  
220 W. 86th St.  
Bloomington, MN 55420  
TEL: 952-884-3144

Emergency Telephone Number 1-866-303-6943

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

### PRODUCT AS SOLD

|                                   |                           |
|-----------------------------------|---------------------------|
| Acute Dermal Toxicity             | Category 4                |
| Acute Oral Toxicity               | Category 4                |
| Skin Corrosion/Irritation         | Category 1 Subcategory 1A |
| Serious Eye Damage/Eye Irritation | Category 1                |

### PRODUCT AT USE DILUTION

|                                   |            |
|-----------------------------------|------------|
| Acute Oral Toxicity               | Category 4 |
| Skin Corrosion/Irritation         | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 1 |

### GHS Label elements, including precautionary statements

#### Emergency Overview

### PRODUCT AS SOLD

Signal Word Danger

**Hazard Statements**

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



**Appearance** Yellow

**Physical State** Solid

**Odor** Butyl Ether

**Precautionary Statements**

**Prevention**

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

**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
- Call a POISON CENTER or doctor/physician if you feel unwell
- Wash contaminated clothing before reuse

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
- Call a poison control center if you feel unwell

**Storage**

- Store locked up

**Disposal**

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

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Harmful to aquatic life

**PRODUCT AT USE DILUTION**

**Signal Word**

**Danger**

**Hazard Statements**

- Harmful in contact with skin
- Causes skin burns and eye damage
- Harmful if swallowed



**Appearance** Colorless **Physical State** Liquid **Odor** None

**Precautionary Statements**

**Prevention**

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

**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
- Call a POISON CENTER or doctor/physician if you feel unwell
- Wash contaminated clothing before reuse

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Ingestion**

- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
- Call a poison control center if you feel unwell

**Storage**

- Store locked up

**Disposal**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**PRODUCT AS SOLD**

| Chemical Name   | CAS-No     | Weight % | Trade secret |
|---|------------|----------|--------------|
| Sodium Metasilicate                                       | 6834-92-0  | 20 - 40  | *            |
| Nonylphenol Ethoxylate                                    | 9016-45-9  | 10 - 20  | *            |
| Benzenesulphonic acid,C10-C13 alkyl derivs., sodium salts | 68411-30-3 | 10 - 20  | *            |
| Sodium hydroxide  | 1310-73-2  | 5 - 15   | *            |
| Tetrasodium ethylenediamine tetraacetate                  | 64-02-8    | 5 - 10   | *            |
| 2-butoxyethanol   | 111-76-2   | 2 - 5    | *            |

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

**PRODUCT AT USE DILUTION**  
Contains ingredients listed above at weight % less than 0.5%

**4. FIRST AID MEASURES**

**PRODUCT AS SOLD**

**Description of necessary first-aid measures**

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Immediate medical attention is required.   |
| <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 with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician..              |
| <b>Inhalation</b>     | Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.  |
| <b>Ingestion</b>      | Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

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

**Most Important Symptoms/Effects** No information available.

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

**Notes to Physician** Treat symptomatically.

| <b>PRODUCT AT USE DILUTION</b> |  |
|--------------------------------|--|
| <b>Eye Contact</b>             | Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. Seek immediate medical attention / advice.         |
| <b>Skin Contact</b>            | Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.               |
| <b>Inhalation</b>              | Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.  |
| <b>Ingestion</b>               | Do NOT induct vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media** None

**Specific Hazards Arising from the Chemical**

No information available

**Explosion Data**

**Sensitivity to Mechanical Impact** None  
**Sensitivity to Static Discharge** None

**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**

**PRODUCT AS SOLD**

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

**Personal Precautions** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become very slippery.

**Environmental Precautions**

**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. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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

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

**Methods for Cleaning Up** Collect and reuse if possible. Following product recovery, flush area with water.

| PRODUCT AT USE DILUTION   |   |
|---|---|
| <b>Personal Precautions</b>   | Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Use personal protective equipment. Solution can cause surfaces to become slippery. |
| <b>Environmental Precautions</b>                                    | Avoid release to the environment. Rinse or mop up use solutions. Solutions may be flushed down sanitary sewer drains.                                     |
| <b><u>Methods and materials for containment and cleaning up</u></b> |   |
| <b>Methods for Containment</b>                                      | Prevent solutions from spillage.  |
| <b>Methods for Cleaning Up</b>                                      | Flush area with water.  |

**7. HANDLING AND STORAGE**

**PRODUCT AS SOLD**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

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

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

**Incompatible Products** None

| PRODUCT AT USE DILUTION            |   |
|------------------------------------|---|
| <b>Advice on safe handling</b>     | Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Use only with adequate ventilation. Wash hands thoroughly after handling. |
| <b>Conditions for safe storage</b> | Keep out of reach of children. Store in suitable labeled containers.  |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name    | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|------------------|------------------------------|--|--|
| Sodium hydroxide | 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> |
| 2-butoxyethanol  | TWA: 20 ppm                  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup>                          | TWA: 5 ppm<br>IDLH: 700 ppm                                |

**Appropriate engineering controls**

Engineering Measures Eyewash stations

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Rubber gloves. Rubber apron when changing empty jugs.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.  
**Hygiene Measures** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PRODUCT AS SOLD

**Information on basic physical and chemical properties**

|                       |             |                       |                          |
|-----------------------|-------------|-----------------------|--------------------------|
| <b>Physical State</b> | Solid       | <b>Appearance</b>     | Yellow                   |
| <b>Odor</b>           | Butyl Ether | <b>Odor Threshold</b> | No information available |

| <b><u>Property</u></b>              | <b><u>Values for Product as Sold</u></b> | <b><u>Values for Product at Use Dilution</u></b> |
|-------------------------------------|--|--|
| <b>pH , Use Solution</b>            | NA                                       | 10.5 – 12.0                                      |
| <b>Melting Point/Range</b>          | 60 °C / 140 °F                           |  |
| <b>Boiling Point/Boiling Range</b>  | None                                     |  |
| <b>Flash Point</b>                  | None.                                    |  |
| <b>Evaporation rate</b>             | No data available                        | Physical State – Liquid                          |
| <b>Flammability (solid, gas)</b>    | No data available                        | Odor – None                                      |
| <b>Flammability Limits in Air</b>   |  | Appearance - Colorless                           |
| <b>upper flammability limit</b>     | No data available                        |  |
| <b>lower flammability limit</b>     | No data available                        |  |
| <b>Vapor Pressure</b>               | No data available                        |  |
| <b>Vapor Density</b>                | No data available                        |  |
| <b>Relative Density</b>             | No data available                        |  |
| <b>Specific Gravity</b>             | No data available                        |  |
| <b>Water Solubility</b>             | Complete                                 |  |
| <b>Solubility in other solvents</b> | No data available                        |  |
| <b>Partition coefficient:</b>       | No data available                        |  |
| <b>n-octanol/water</b>              |  |  |
| <b>Autoignition Temperature</b>     | No data available                        |  |
| <b>Decomposition Temperature</b>    | No data available                        |  |
| <b>Viscosity</b>                    | No data available                        |  |
| <b>Flammable Properties</b>         | Not flammable                            |  |
| <b>Explosive Properties</b>         | Not explosive                            |  |
| <b>Oxidizing Properties</b>         | Not an oxidizer                          |  |
| <b><u>Other information</u></b>     |  |  |
| <b>VOC Content (%)</b>              | 2-5%                                     |  |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None

**Hazardous decomposition products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**PRODUCT AS SOLD**

**Information on likely routes of exposure**

**Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.  |
| <b>Eye Contact</b>  | Eye contact with corrosive substances can cause eye burns.  |
| <b>Skin Contact</b> | Skin contact with corrosive substances can cause skin burns.  |
| <b>Ingestion</b>    | Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**PRODUCT AT USE DILUTION**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.  |
| <b>Eye Contact</b>  | Eye contact with corrosive substances can cause eye burns.  |
| <b>Skin Contact</b> | Skin contact with corrosive substances can cause skin burns.  |
| <b>Ingestion</b>    | Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

| Chemical Name   | LD50 Oral                                 | LD50 Dermal             | LC50 Inhalation               |
|---|---|-------------------------|-------------------------------|
| Sodium Metasilicate                                       | = 1280 mg/kg (Rat)<br>= 2400mg/kg (Mouse) | -                       | -                             |
| Nonylphenol Ethoxylate                                    | = 3310 mg/kg ( Rat )                      | = 2000 mg/kg ( Rabbit ) | -                             |
| Benzenesulphonic acid,C10-C13 alkyl derivs., sodium salts | = 1020 mg/kg ( Rat )                      | -                       | -                             |
| Sodium hydroxide  | -   | = 1350 mg/kg ( Rabbit ) | -                             |
| Tetrasodium ethylenediamine tetraacetate                  | = 1780-2000mg/kg ( Rat )                  | -                       | = 30 mg/L (Rat)               |
| 2-butoxyethanol   | = 470 mg/kg (Rat )                        | = 400 mg/kg (Rabbit)    | = 2.21 mg/L (Rat 4h, 950 ppm) |

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

**Symptoms** No information available.

**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 |
|-----------------|-------|---------|-----|------|
| 2-butoxyethanol | A3    | Group 3 |     |      |

**ACGIH (American Conference of Governmental Industrial Hygienists )**-Carcinogenic to animals  
**IARC (International Agency for Research on Cancer)**-Not classifiable as carcinogenic to humans

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**Numerical measures of toxicity • - Product**

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

**LD50 Oral** No information available.  
**LD50 Dermal** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life

| Chemical Name   | Toxicity to Algae                               | Toxicity to Fish                                    | Toxicity to Microorganisms | Daphnia Magna (Water Flea)            |
|---|---|---|----------------------------|---------------------------------------|
| Sodium Metasilicate                                       | -   | LC50 96 h: = 2320 mg/L static (Gambusia affinis)    | -                          | EC50 48h: = 247 mg/L (Daphnia magna)  |
| Benzenesulphonic acid,C10-C13 alkyl derivs., sodium salts | EC50 96h: = 0.97 mg/L                           | LC50 96 h: = 1.67 mg/L (Bluegill Sunfish)           | -                          | EC50 48 h: = 7.6 mg/L (Daphnia magna) |
| Nonylphenol Ethoxylate                                    | -   | LC50 96 h: = 1.8 mg/L static (Bluegill Sunfish)     | -                          | EC50 48h: = 12.2 mg/L (Daphnia magna) |
| Sodium hydroxide  | -   | LC50 96 h: = 45.4 mg/L static (Oncorhynchus Mykiss) | -                          |                                       |
| Tetrasodium ethylenediamine tetraacetate                  | EC50 72h: = 2.77 mg/L (Desmodesmus subspicatus) | LC50 96 h: = 490 mg/L static (Bluegill Sunfish)     | -                          | EC50 24h: = 610 mg/L (Daphnia magna)  |
| 2-butoxyethanol   | -   | LC50 96 h: = 1490 mg/L (Bluegill Sunfish)           | -                          |                                       |

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.

| Chemical Name   | Log Pow |
|-----------------|---------|
| 2-Butoxyethanol | 0.81    |

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT AS SOLD**

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

**PRODUCT AT USE DILUTION**  
 Dispose of in accordance of the federal, state, local regulations.

**14. TRANSPORT INFORMATION**

**DOT**

**UN-Number** UN3262  
**Proper shipping name** Corrosive solid, basic, inorganic, n.o.s.  
**Hazard Class** 8  
**Packing Group** II  
**Reportable Quantity (RQ)** Sodium hydroxide: RQ kg= 1055.81  
**Description** UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II, RQ  
**Emergency Response Guide Number** 154

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL/NDSL** 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 contain 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.

| Chemical Name   | CAS #    | Weight % | SARA313 Threshold Values |
|-----------------|----------|----------|--------------------------|
| 2-Butoxyethanol | 111-79-2 | 2 - 5    | 1.0%                     |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | 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 40 CFR 122.42):

| Chemical Name    | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide | 1000 lb                     |                        |                           | X                          |

**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 | RQ  |
|------------------|--------------------------|------------------------------------|---|
| Sodium hydroxide | 1000 lb                  |                                    | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**U.S. State Regulations**

**California Proposition 65**

This product contains no Proposition 65 chemical.

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

| Chemical Name    | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|------------------|------------|---------------|--------------|----------|--------------|
| 2-Butoxyethanol  | X          | X             | X            | X        | X            |
| Sodium hydroxide | X          | X             | X            | X        | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|             |                 |                |                   |                                 |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| <b>NFPA</b> | Health Hazard 3 | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| <b>HMIS</b> | Health Hazard 3 | Flammability 0 | Physical Hazard 0 | Personal Protection B           |

Prepared By Sunburst Chemicals  
220 West 86<sup>th</sup> Street  
Bloomington, MN 55420  
952-884-3144  
Issuing Date 30-Dec-2013  
Revision Date 23-Jun-2016  
Revision Note Update

---

**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**