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

**GHS product identifier**

**Product Name**
Solid Performance

**Other means of identification**

**Product Code(s)**
6149

**UN-Number**
UN3262

**Synonyms**
None

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

**Recommended Use**
Dishwasher 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**

**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)

<table>
<thead>
<tr>
<th>Toxicity Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Dermal Toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 1  Subcategory 1A</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Signal Word**
Danger

**Hazard Statements**
- Harmful in contact with skin
- Causes severe skin burns and eye damage
Appearance | White | Physical State | Solid | Odor | None

Precautionary Statements

Prevention
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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

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

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>30-60</td>
<td>*</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td>7758-29-4</td>
<td>10-30</td>
<td>*</td>
</tr>
<tr>
<td>2-Propenoic acid, telomer with sodium hydrogen sulfate</td>
<td>66019-18-9</td>
<td>3 -7</td>
<td>*</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>1-5</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.*
4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**General Advice**
Immediate medical attention is required.

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.

**Inhalation**
Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion**
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.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water. Carbon dioxide (CO₂). 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

**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**
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.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling**
Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. 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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide 1310-73-2</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³</td>
<td>IDLH: 10 mg/m³ Ceiling: 2 mg/m³</td>
</tr>
</tbody>
</table>

**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.

**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

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td>Appearance</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>pH</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>48 °C / 118.4 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>upper flammability limit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>lower flammability limit</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
Specific Gravity No data available None known
Water Solubility No data available None known
Solubility in other solvents No data available None known
Partition coefficient: n-octanol/water No data available None known
Autoignition Temperature No data available None known
Decomposition Temperature No data available None known
Viscosity No data available None known

Flammable Properties Not flammable
Explosive Properties No data available
Oxidizing Properties 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.

Conditions to avoid
None known based on information supplied.

Incompatible materials
None

Hazardous decomposition products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Inhalation May cause irritation of respiratory tract.
Eye Contact Causes serious eye damage.
Skin Contact Harmful in contact with skin. Causes severe skin burns.
Ingestion May cause irritation

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
Contains no ingredient listed as a carcinogen.

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 3395 mg/kg; Acute toxicity estimate
LD50 Dermal 1413 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>LC50 96 h: = 45.4 mg/L</td>
<td>EC50 120 h: = 242 mg/L</td>
<td>310 - 1220 mg/L static</td>
<td>EC50 48 h: = 265 mg/L</td>
</tr>
<tr>
<td></td>
<td>(static (Oncorhyncus mykiss))</td>
<td>(Nitzschia)</td>
<td>(Pimephales promelas)</td>
<td>(Daphnia magna)</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td>LC50 48 h: = 1650 mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Leuciscus idus)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>EC50 48 h: = 265 mg/L</td>
<td>LC50 96 h: = 300 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Daphnia magna)</td>
<td>(Lepomis macrochirus)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>Toxic</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

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

TDG
UN-Number UN3262
Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s.
| **Hazard Class** | 8 |
| **Packing Group** | II |
| **Description** | UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II |

**UN-Number**
- **Proper Shipping Name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s., 8, II

**ICAO**
- **UN-Number**: UN3262
- **Proper shipping name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s., 8, II

**IATA**
- **UN-Number**: UN3262
- **Proper Shipping Name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **ERG Code**: 8L
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II

**IMDG/IMO**
- **UN-Number**: UN3262
- **Proper Shipping Name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **EmS No.**: F-A, S-B
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II

**ADR**
- **UN-Number**: UN3262
- **Proper Shipping Name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **Classification Code**: C6
- **Tunnel Restriction Code**: (E)
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II, (E)
- **ADR/RID-Labels**: 8
- **Proper Shipping Name**: Corrosive solid, basic, inorganic, n.o.s.
- **Hazard Class**: 8
- **Packing Group**: II
- **Classification Code**: C6
- **Special Provisions**: 274
- **Description**: UN3262, Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II
- **Limited Quantity**: 1 kg
15. REGULATORY INFORMATION

International Inventories
TSCA Complies

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

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

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 454 kg final RQ</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Pentasodium triphosphate</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>Personal Protection B</td>
</tr>
</tbody>
</table>

HMIS

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Prepared By
Sunburst Chemicals
220 West 86th Street
Bloomington, MN 55420
952-884-3144
General Disclaimer
The information provided on this MSDS 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