Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

**Product Label Name**
all Liquid Laundry Detergent - Stainlifter 172 oz

**Product name**
ALL 104/172 HD2 STAINLIFTER

**UPC Code**
60072613451304

**Recommended Use**
Laundry detergent liquid for clothes washing machines.

**Supplier Address**
Sun Products Corporate Office
60 Danbury Road
Wilton, CT 06897
USA

**Chemical Emergency Phone Number**
Chemtrec 1-800-424-9300 (24 hour)
Poison Control 1-800-222-1222 (24 hour)

**Company Emergency Phone Number**
Prosar: 1-800-565-5597 (24 hours)

**General Questions:**
all - 1-800-298-2408 (Monday – Friday, 8:30AM to 6:00PM EST)

2. HAZARDS IDENTIFICATION

**DANGER!**

**Emergency Overview**
Corrosive
Keep out of the reach of children
Irritating to eyes
Harmful if swallowed
Harmful by inhalation, in contact with skin and if swallowed
The product causes burns of eyes, skin and mucous membranes

**Potential Health Effects**
See Section 11 for additional Toxicological information.

**Ingestion**
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. Do not taste or swallow. Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach.

**Eyes**
Corrosive to the eyes and may cause severe damage including blindness. Causes burns. Risk of serious damage to eyes.

**Skin**
Prolonged or repeated contact may dry skin and cause irritation. Causes burns.

**Inhalation**
Harmful by inhalation. Avoid breathing vapors or mists.
Chronic Effects

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risks of irreversible effects.

Aggravated Medical Conditions

Preexisting eye disorders. Skin disorders. Respiratory disorders.

Environmental hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS


<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS</td>
<td>68081-81-2</td>
<td>7-13</td>
</tr>
<tr>
<td>C12-C15 Alcohol Ethoxylate</td>
<td>68131-39-5</td>
<td>7-13</td>
</tr>
</tbody>
</table>

Under normal consumer household use, this product would not constitute a hazardous product by OSHA definition as OSHA is not applicable to household consumer use.

4. FIRST AID MEASURES

General advice

Immediate medical attention is required.

Eye contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact

Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation

Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or Poison Control Center immediately.

Notes to physician

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

Protection of First-aiders

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Not flammable.

Flash point

Not determined.

Flammability Limits in Air

Upper Flammability Limit: No information available
Lower Flammability Limit: No information available
**ALL 104/172 HD2 STAINLIFTER**

**Revision Date**: 11-Jan-2013

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**Autoignition temperature**: No information available

**Hazardous Combustion Products**: None.

**Explosive properties**: No information available

**Explosion Limits**
- **Upper (UEL)**: No information available
- **Lower (LEL)**: No information available

**Suitable Extinguishing Media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**: None.

**Specific hazards arising from the chemical**: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**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.

### NFPA
- **Health Hazard**: 3
- **Flammability**: 0
- **Stability**: 0

### HMIS
- **Health Hazard**: 3
- **Flammability**: 0
- **Physical Hazard**: 0
- **Personal protection**: -

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions**: Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for cleaning up**: Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

**Other information**: Refer to protective measures listed in Sections 7 and 8.

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### 7. HANDLING AND STORAGE

**Advice on safe handling**: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

**Technical measures/Storage conditions**: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**: .
NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures
None under normal use conditions

Personal Protective Equipment

<table>
<thead>
<tr>
<th>Eye/Face Protection</th>
<th>Tightly fitting safety goggles Face-shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and body protection</td>
<td>No protective equipment is needed under normal use conditions.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.</td>
</tr>
</tbody>
</table>

Hygiene measures
Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.055 SPECIFIC GRAVITY - 20C</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>350.000 cps viscosity</td>
</tr>
<tr>
<td>Method</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>VOC Content(%)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Appearance</td>
<td>CLEAR LIQUID</td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh</td>
</tr>
<tr>
<td>pH</td>
<td>11.650 pH.</td>
</tr>
<tr>
<td>Density</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>no data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions.

Incompatible products
Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Conditions to Avoid
Exposure to air or moisture over prolonged periods.

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Reactions
None known based on information supplied.

Hazardous Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
May be harmful if swallowed. Can burn mouth, throat, and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not taste or swallow.
Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness. Causes burns.

Avoid contact with skin. Prolonged skin contact may cause burns. Prolonged contact may cause redness and irritation. Prolonged or repeated contact may dry skin and cause irritation.

Avoid breathing vapors or mists. Harmful by inhalation.

Product is safe for its intended use based on the formulation, testing results, and the long history of safe consumer use.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS</td>
<td>1000 mg/kg ( Rat )</td>
<td>730 mg/kg ( Rabbit )</td>
<td></td>
</tr>
<tr>
<td>C12-C15 Alcohol Ethoxylate</td>
<td>2 g/kg ( Rat )</td>
<td>2 g/kg ( Rabbit )</td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risks of irreversible effects.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH: (American Conference of Governmental Industrial Hygienists)</td>
<td>A2 - Suspected Human Carcinogen</td>
</tr>
<tr>
<td>IARC: (International Agency for Research on Cancer)</td>
<td>Group 1 - Carcinogenic to Humans</td>
</tr>
<tr>
<td>NTP: (National Toxicity Program)</td>
<td>Known - Known Carcinogen</td>
</tr>
<tr>
<td>OSHA: (Occupational Safety &amp; Health Administration)</td>
<td>X - Present</td>
</tr>
</tbody>
</table>

Sensitization

None known.

Germ Cell Mutagenicity

None known.

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards

Developmental Toxicity

None known

Target Organ Effects

Eyes, Respiratory system, Skin

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms

Persistence and degradability

No data is available on the product itself.

Bioaccumulation

Not likely to bioaccumulate.

Mobility

Not Determined.
13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging
Do not re-use empty containers

California Hazardous Waste Codes
561

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

14. TRANSPORT INFORMATION

DOT
Not regulated
TDG
Not regulated
MEX
Not regulated
IATA
Not regulated
IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
Complies
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
Complies

U.S. Federal Regulations

SARA 313
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
Acute Health Hazard
Yes
Chronic Health Hazard
Yes
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):

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):
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>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfate</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mexico

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
D2B  Toxic materials
E   Corrosive material

Legend
NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By  Sun Products Corporation
             Regulatory Affairs
Revision Date  11-Jan-2013
Revision Note  no data available.
Status  4
PROTOTYPE  E
Disclaimer  The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Sun Products Corporation to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Sun Products Corporation assumes no responsibility for injury to the recipient of third persons, or for any damage to any property resulting from misuse of the product.
End of Material Safety Data Sheet