

Material Safety Data Sheet



SOLID SURGE PLUS

Section 1. Chemical product and company identification

Trade name : SOLID SURGE PLUS
Product use : Laundry detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 998963-01
Date of issue : 10-May-2006

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium hydroxide	1310-73-2	42
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-sodium chloride	9016-45-9	5 - 20
	7647-14-5	1 - 5

Section 3. Hazards identification

Physical state : Solid. (Cast Solid)
Emergency overview : WARNING!

CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.

HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : No known significant effects or critical hazards.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
Product does not support combustion.
- Products of combustion** : These products are halogenated compounds, hydrogen chloride.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
Dike liquid for later disposal.
No specific hazard.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Do not store above 45°C

Section 8. Exposure controls, personal protection

- Engineering controls** : Good general ventilation should be sufficient to control airborne levels.
- Personal protection**
- Eyes** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hands** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Name

sodium hydroxide

Exposure limits

OSHA PEL (United States, 8/1997).TWA: 2 mg/m³ 8 hour(s). Form: All forms**ACGIH TLV (United States, 1/2004).**CEIL: 2 mg/m³CEIL: 2 mg/m³ Form: All forms

Section 9. Physical and chemical properties

- Physical state** : Solid. (Cast Solid)
- Color** : Yellow.
- Odor** : Fragrance-like.
- pH** : 12.2 (1%)
- Boiling/condensation point** : >100 °C
- Dispersibility properties** : Partially dispersible in cold water, hot water.
- Solubility** : Partially soluble in cold water, hot water.

Section 10. Stability and reactivity

- Stability** : The product is stable.
- Reactivity** : Highly reactive with acids.
Reactive with metals.
Slightly reactive to reactive with organic materials.
- Hazardous decomposition products** : These products are halogenated compounds, hydrogen chloride.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Severely irritating to eyes. Untreated contact may cause chemical burns.
- Skin** : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed. Causes burns to mouth, throat and stomach.

Potential chronic health effects

- Chronic effects on humans** : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eye, lens or cornea, stomach.

Section 12. Ecological information

- Products of degradation** : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂ etc.), halogenated compounds, phosphates. Some metallic oxides.

Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1823	Sodium hydroxide, solid mixture	8	II	<p>Limited quantity Yes.</p> <p>Special provisions IB8, IP2, IP4</p>

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

- HCS Classification** : Corrosive material
Target organ effects
- U.S. Federal regulations** : SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
- TSCA 8(b) inventory** : All materials are listed or exempt.
- California Prop. 65** : No products were found.

Section 16. Other information

Hazardous Material
Information System (U.S.A.) :

Health	*	2
Fire hazard		0
Reactivity		0
Personal protection		--

Date of issue : 10-May-2006.
Responsible name : Regulatory Affairs
Date of previous issue : 21-September-2005.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.