

Material Safety Data Sheet

SOLID SURGE PLUS



1. Product and company identification

Trade name of product : SOLID SURGE PLUS

Product use : Laundry detergent

Product dilution information : Up to 200 g/50 gal in water or 200 g/189.3 L

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 905323-01

Date of issue : 12-October-2011

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

2. Hazards identification

Product AS SOLD

Physical state : Cast Solid

Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.
MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Product AT USE DILUTION

Liquid.

CAUTION !

No specific hazard.

No specific hazard.

Potential acute health effects

Product AS SOLD

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

Inhalation : No known significant effects or critical hazards.

Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

See toxicological information (Section 11)

3. Composition/information on ingredients

Product AS SOLD

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
SODIUM HYDROXIDE	1310-73-2	42
alcohols, c12-16, ethoxylated	68551-12-2	5 - 20
SODIUM CARBONATE	497-19-8	5 - 20

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
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.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire. Dike area of fire to prevent runoff. No specific fire or explosion 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.

6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed. Do not store above the following temperature: 50°C	Keep out of reach of children.

8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Engineering measures	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection		
Eyes	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.	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.	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.	No protective equipment is needed under normal use conditions.
Respiratory	: No special protection is required.	No special protection is required.

Ingredient	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 2/2010). C: 2 mg/m ³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m ³ 8 hour(s).

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Cast Solid	Liquid.
Flash point	: > 100°C Product does not support combustion.	> 100°C
Color	: Yellow	Colorless
Odor	: Fragrance-like	Fragrance-like
pH	: 11.8 to 13 [Conc. (% w/w): 1%]	10.8 to 12.2
Boiling/condensation point	: >100°C (>212°F)	
Relative density	: 1.45 to 1.55	
Dispersibility properties	: Easily dispersible in the following materials: hot water. Dispersible in the following materials: cold water.	
Solubility	: Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.	

10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: metals. Slightly reactive or incompatible with the following materials: moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Potential acute health effects

Product AS SOLD	
Eyes	: Corrosive to eyes.
Skin	: Corrosive to the skin.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Product AS SOLD

Other adverse effects

Target organs	: Contains material which may cause damage to the following organs: upper respiratory tract.
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12. Ecological information

Ecotoxicity	: Not reported
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13. Disposal considerations

Product AS SOLD	
Waste disposal	: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Product AS SOLD

DOT Classification	UN1823
DOT Proper shipping name	Sodium hydroxide, solid mixture
Class	8
Packing group	II

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD	
HCS Classification	: Corrosive material Target organ effects

Product AT USE DILUTION

Not regulated.

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory	: All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances	: No listed substance
SARA 302/304 emergency planning and notification	: No listed substance

SARA 313

Product name

CAS number

Concentration

15. Regulatory information

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

16. Other information

Product AS SOLD

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

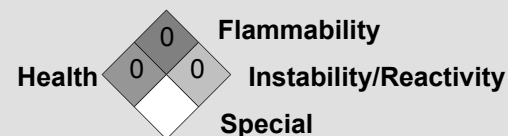
Health	3
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.) :



Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



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 Responsible name : Regulatory Affairs
 1-800-352-5326

▣ Indicates information that has changed from previously issued version.

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.