

Section 1. Chemical product and company identification

Product name : SOLID NAVISOFT

Recommended use and restrictions : Laundry softener

Use only for the purpose on the product label.

Product dilution information : Up to 1.02 oz/100 gal or 8 mL/100 mL in water

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

Code : 903656

Date of issue : 02 Apr 2013

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

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
ACUTE TOXICITY: ORAL - Category 4
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
AQUATIC TOXICITY (ACUTE) - Category 2

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : Harmful if swallowed.
Causes severe skin burns and eye damage.
Toxic to aquatic life.

Precautionary statements

Prevention : Avoid release to the environment. Wash thoroughly after handling.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

Section 2. Hazards identification

do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
SODIUM BISULFATE	20 - 50	7681-38-1
carboxylic acids, di-, c4-6	20 - 50	68603-87-2
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	5 - 20	68002-58-4
PEG-6 METHYL ETHER	1 - 5	9004-74-4
DIETHYLENE GLYCOL	1 - 5	111-46-6

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.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: Take off immediately all contaminated clothing. Rinse skin with water or shower. 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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention immediately. Rinse mouth. Do not induce vomiting.	Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
See toxicological information (section 11)		

Section 5. Fire-fighting measures

Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- 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

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.

Section 7. Handling and storage

Product AS SOLD		Product AT USE DILUTION
Handling	: Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
DIETHYLENE GLYCOL	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m ³ 8 hours.

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: 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		
Eye protection	: 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.
Hand protection	: 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 protection	: 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 protection	: A respirator is not needed under normal and intended conditions of product use.	A respirator is not needed under normal and intended conditions of product use.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Cast Solid	Liquid.
Color	: Tan	Colorless
Odor	: Fragrance-like	Fragrance-like
pH	: 2 to 3 (1%)	5 to 7
Flash point	: > 100°C Product does not support combustion.	> 100°C
Explosion limits	: Not available.	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: Not available.	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 0 (Water = 1)	
Solubility	: Soluble in the following materials: hot water. Partially soluble in the following materials: cold water.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Odor threshold	: Not available.	
Viscosity	: Not available.	

Section 10. Stability and reactivity

Product AS SOLD

- Stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Highly reactive or incompatible with the following materials: alkalis.
Reactive or incompatible with the following materials: metals.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Ingestion

Product AS SOLD

Symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Inhalation** : Adverse symptoms may include the following:
coughing
Respiratory tract irritation
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Acute toxicity

- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes severe burns.
- Inhalation** : May cause respiratory irritation.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

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.

Toxicity data

Product/ingredient name	Result	Species	Dose
Sodium bisulfate	LC50 Inhalation Dusts and mists	Rat	>2.4 mg/l
carboxylic acids, di-, c4-6	LD50 Oral	Rat	2140 mg/kg
	LD50 Dermal	Rat	>4940 mg/kg
	LD50 Oral	Rat	2131 mg/kg
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	LD50 Dermal	Rabbit	2930 mg/kg
	LD50 Oral	Rat	730 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	LD50 Dermal	Rabbit	>21880 mg/kg
	LD50 Oral	Rat	>24068 mg/kg

Chronic toxicity

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.

Section 11. Toxicological information

Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is toxic to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
Sodium bisulfate	Acute LC50 7960 mg/l	Fish	96 hours
carboxylic acids, di-, c4-6	Acute LC50 59.5 mg/l	Fish	96 hours
quaternary ammonium compounds, di-c14-18-alkyldimethyl, me sulfates	Acute EC50 0.57 mg/l	Daphnia	48 hours
poly(oxy-1,2-ethanediyl), .alpha.-methyl-.omega.-hydroxy-	Acute LC50 10000 mg/l	Fish	96 hours
2,2'-oxybisethanol	Acute LC50 75200 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **Product AS SOLD**
 : 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.

Section 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.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

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

Form R - Reporting requirements : No listed substance

Section 15. Regulatory information

California Prop. 65

: No listed substance

Section 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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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.



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