

# Material Safety Data Sheet

SOLID POWER



## 1. Product and company identification

Trade name of product : SOLID POWER  
Product use : Machine Warewashing Detergent

Product dilution information : Up to 2.7 oz/10 gal in water

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

Code : 914100-01

Date of issue : 16-November-2010

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** : WARNING !  
  
CAUSES DIGESTIVE TRACT BURNS.  
CAUSES SEVERE EYE AND SKIN IRRITATION.  
Untreated contact may cause severe irritation or chemical 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** : 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** : 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	37
SODIUM CARBONATE	497-19-8	20 - 50

### Product AT USE DILUTION

### 3. Composition/information on ingredients

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
<b>Eye contact</b>	: 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.
<b>Skin contact</b>	: 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.
<b>Inhalation</b>	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: 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

<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides
<b>Fire-fighting media and instructions</b>	: Use an extinguishing agent suitable for the surrounding fire.  Dike area of fire to prevent runoff. No specific fire or explosion hazard.
<b>Special protective equipment for fire-fighters</b>	: 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
<b>Personal precautions</b>	: 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.
<b>Environmental precautions</b>	: 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.
<b>Methods for cleaning up</b>	: Collect spillage. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## 7. Handling and storage

<b>Handling</b>	<b>Product AS SOLD</b>
	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	<b>Product AS SOLD</b>
	: Keep out of reach of children. Keep container tightly closed. Store between the following temperatures: -10 and 50°C

**Product AT USE DILUTION**  
Wash thoroughly after handling.

Keep out of reach of children.

## 8. Exposure controls/personal protection

<b>Engineering measures</b>	<b>Product AS SOLD</b>
	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Product AT USE DILUTION**  
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protection

<b>Eyes</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
<b>Hands</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
<b>Skin</b>	: Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
<b>Respiratory</b>	: 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.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No special protection is required.

Ingredient	Exposure limits
SODIUM HYDROXIDE	<b>ACGIH TLV (United States, 2/2010).</b> C: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 11/2006).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).

## 9. Physical and chemical properties

<b>Physical state</b>	<b>Product AS SOLD</b>
	: Cast Solid
<b>Flash point</b>	<b>Product AS SOLD</b>
	: > 100°C Product does not support combustion.
<b>Color</b>	: Off-white.
<b>Odor</b>	: Faint odor.
<b>pH</b>	: 12 to 13 [Conc. (% w/w): 1%]
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.

### **Product AT USE DILUTION**

Liquid.  
> 100°C

Clear.

Odorless.

11.2 to 11.7

## 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** : Extremely reactive or incompatible with the following materials: acids.  
Highly reactive or incompatible with the following materials: metals.  
Reactive or incompatible with the following materials: organic materials and 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** : 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** : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

### Product AT USE DILUTION

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: lungs, upper respiratory tract.

## 12. Ecological information

- Ecotoxicity** : Not reported

## 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** UN1759
- DOT Proper shipping name** Corrosive solids, n.o.s. (sodium hydroxide)
- Class** 8
- Packing group** III

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 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

California Prop. 65 : No listed substance

**Product AT USE DILUTION**

Not regulated.

## 16. Other information

**Product AS SOLD**

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

Health	*	2
Flammability		0
Physical hazards		0

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



**Product AT USE DILUTION**

Health		0
Flammability		0
Physical hazards		0



Date of issue : 16-November-2010  
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.