

Material Safety Data Sheet

ECOLAB

SOLID POWER

#49145

Section 1. Chemical product and company identification

Trade name : SOLID POWER
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 949008
Date of issue : 25-August-2008

Page 1 of 4

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

Name	CAS number	% by weight
sodium hydroxide	1310-73-2	36
triphosphoric acid, pentasodium salt	7758-29-4	14
sodium carbonate	497-19-8	20 - 50

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.

MAY BE HARMFUL IF SWALLOWED.

May cause burns to mouth, throat and stomach.

Do not ingest. Do not get in eyes, on skin or on clothing. 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 : May be 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. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : If inhaled, remove to fresh air.

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.

Section 5. Fire fighting measures

- Flash point : > 100°C
Product does not support combustion. # 49145
- Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
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.

Section 6. Accidental release measures

- Personal precautions : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

Section 7. Handling and storage

- Handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
- Storage : Keep out of the reach of children. Do not allow water to enter container. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: -10 and 50°C

Section 8. Exposure controls/personal protection

- Engineering measures : 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.
- 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

ACGIH TLV (United States, 1/2008).

C: 2 mg/m³

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state : Solid. [Cast Solid]
Color : Blue. [Light] #49145
Odor : Faint odor.
pH : 12 to 13 [Conc. (% w/w): 1%]
Solubility : Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

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.

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

Potential chronic health effects

Target organs : Contains material which may cause damage to the following organs: lungs, upper respiratory tract.

Section 12. Ecological information

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

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.

UN Classification

UN number : UN1759
Proper shipping name : CORROSIVE SOLIDS, N.O.S. (Contains Sodium hydroxide)
Class : 8
Packing group : III

See shipping documents for specific transportation information.

49145

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 components are listed or exempted.

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	2
Flammability	0
Physical hazards	0

Date of issue : 25-August-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 15-August-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.