

Material Safety Data Sheet

SOLID POWER



SOLID POWER

16 November 2010

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.

1. Product and company identification

Trade name of product : SOLID POWER
Product use :

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 : 914-100-01

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.

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.

See toxicological information (section 11)

3. Composition/information on ingredients

Product AS SOLD

Name

SODIUM HYDROXIDE

SODIUM CARBONATE

Product AT USE DILUTION

CAS number % by weight

1310-73-2 37

497-19-8 20 - 50

4. First aid measures

Product AS SOLD

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 : 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.

Product AT USE DILUTION

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

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
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.

6. Accidental release measures

Product AS SOLD

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.

Environmental precautions : Avoid contact of spilled material and runoff with soil and surface waterways.

Methods for cleaning up : Collect spillage. Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

7. Handling and storage

Product AS SOLD

- Handling** : 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.
- Storage** : 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

Product AS SOLD

- 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** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Product AT USE DILUTION

- Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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.
- 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: 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.

9. Physical and chemical properties

Product AS SOLD

- Physical state** : Cast Solid
- Flash point** : > 100°C
Product does not support combustion.
- Color** : Off-white.
- Odor** : Faint odor.
- pH** : 12 to 13 [Conc. (% w/w): 1%]
- Solubility** : 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

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 : Compressive material
 Classification : 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 : No listed substance
 Form R - Reporting requirements : No listed substance
 California Prop. 65 : No listed substance

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| Product AT USE DILUTION Not regulated. |
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CAS number Concentration

16. Other information

Product AS SOLD
 Hazardous Material Information System (U.S.A.)
 Health * 1 2
 Flammability 0
 Physical hazards 0

Product AS SOLD
 Hazardous Material Information System (U.S.A.)
 Health 0 0
 Flammability 0
 Physical hazards 0

National Fire Protection Association (U.S.A.)
 Health 3 0
 Flammability 0
 Instability/Reactivity 0
 Special

Product AS SOLD
 Hazardous Material Information System (U.S.A.)
 Health 0 0
 Flammability 0
 Physical hazards 0

Health 0 0
 Flammability 0
 Instability/Reactivity 0
 Special

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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.