Material Safety Data Sheet



KEYSTONE SOLID POWER DISHMACHINE DETERGENT

1. Product and company identification

Trade name of product : KEYSTONE SOLID POWER DISHMACHINE DETERGENT

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 : 914100-02

Date of issue : 08-December-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 : WARNING!

overview

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)

Product AT USE DILUTION

Liquid. CAUTION!

No specific hazard.

No specific hazard.

Product AT USE DILUTION

No known significant effects or critical

hazards.

3. Composition/information on ingredients

Product AS SOLD

NameCAS number% by weightSODIUM HYDROXIDE1310-73-237

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

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. No special measures required. Treat

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 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.

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.

normal use conditions.

No protective equipment is needed under

normal use conditions.

No special protection is required.

Ingredient	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 2/2010). C: 2 mg/m³ OSHA PEL (United States, 11/2006). TWA: 2 mg/m³ 8 hour(s).

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

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.

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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.

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 nameCorrosive 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 : Corrosive 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 Product name CAS number Concentration

Form R - Reporting

requirements

California Prop. 65

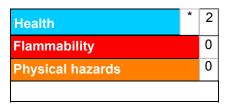
: No listed substance

: No listed substance

16. Other information

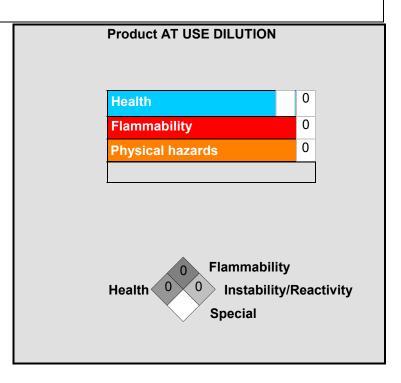
Product AS SOLD

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



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





Product AT USE DILUTION

Not regulated.

Date of issue : 08-December-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.