

Material Safety Data Sheet

HD-325



1. Product and company identification

Trade name of product : HD-325
Product use : Cleaning product

Product dilution information : 1 oz/3gal
2.5 g/L

Supplier's information : Ecolab Inc. Food & Beverage Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-392-3392

Code : 922281-10
Date of issue : 23-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 : Powder.
Emergency overview : DANGER!

CAUSES RESPIRATORY TRACT, DIGESTIVE TRACT, EYE AND SKIN BURNS.
MAY BE HARMFUL IF SWALLOWED.

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.

Product AT USE DILUTION

Liquid.
CAUTION !

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly after handling.

Potential acute health effects

Product AS SOLD

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

Slightly irritating to the eyes.
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

Name	CAS number	% by weight
PENTASODIUM TRIPHOSPHATE	7758-29-4	25
SODIUM HYDROXIDE	1310-73-2	20
SODIUM CARBONATE	497-19-8	20 - 50
SODIUM METASILICATE	6834-92-0	5 - 20
troclosene sodium, dihydrate	51580-86-0	1 - 5
PPG-6 C12-15 PARETH-12	68551-13-3	1 - 5

3. Composition/information on ingredients

Product AT USE DILUTION

Name	CAS number	% by weight
SODIUM HYDROXIDE	1310-73-2	<1

4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
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.	Rinse with water for a few minutes.
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.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.	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.	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
nitrogen oxides
phosphorus oxides
halogenated compounds
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	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.

6. Accidental release measures

<p>Methods for cleaning up : If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.</p>	<p>Use a water rinse for final clean-up.</p>
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7. Handling and storage

<p>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.</p> <p>Storage : Keep out of reach of children. Keep container tightly closed. Do not store above the following temperature: 40°C</p>	<p>Product AS SOLD</p> <p>Product AT USE DILUTION Avoid contact with eyes. Wash thoroughly after handling.</p> <p>Keep out of reach of children. Store in a closed container.</p>
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8. Exposure controls/personal protection

<p>Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.</p> <p>Personal protection</p> <p>Eyes : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.</p> <p>Hands : Use chemical-resistant, impervious gloves.</p> <p>Skin : Use synthetic apron, other protective equipment as necessary to prevent skin contact.</p> <p>Respiratory : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.</p>	<p>Product AS SOLD</p> <p>Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</p> <p>No protective equipment is needed under normal use conditions.</p> <p>No protective equipment is needed under normal use conditions.</p> <p>No protective equipment is needed under normal use conditions.</p> <p>No special protection is required.</p>
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Ingredient	Exposure limits
SODIUM HYDROXIDE	<p>ACGIH TLV (United States, 1/2009). C: 2 mg/m³</p> <p>OSHA PEL (United States, 11/2006). TWA: 2 mg/m³ 8 hour(s).</p>
chlorine	<p>ACGIH TLV (United States, 1/2009). STEL: 2.9 mg/m³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.5 mg/m³ 8 hour(s). TWA: 0.5 ppm 8 hour(s).</p> <p>OSHA PEL (United States, 11/2006). CEIL: 3 mg/m³ CEIL: 1 ppm</p>

9. Physical and chemical properties

Product AS SOLD

Physical state : Powder.
Flash point : > 100°C
Color : Tan. [Light]
Odor : chlorine
pH : 13 [Conc. (% w/w): 1%]

Product AT USE DILUTION

Liquid.
 > 100°C
 Pale color.
 Faint odor.
 12.5 to 13.4

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 acids.
 Highly reactive with moisture.
 Slightly reactive to reactive with metals.
 Mixing this product with acid or ammonia releases chlorine gas.
 Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers.

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 : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

Product AT USE DILUTION

Slightly irritating to the eyes.
 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, stomach.

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 UN3262
 DOT Proper shipping name Corrosive solid, basic, inorganic, 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

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
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	*	3
Flammability		0
Physical hazards		0

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



Product AT USE DILUTION

Health		1
Flammability		0
Physical hazards		0



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16. Other information

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.**