SAFETY DATA SHEET



HD-325

Section 1. Chemical product and company identification

Product name : HD-325

Recommended use and

restrictions

: Cleaning product

Use only for the purpose on the product label.

Product dilution information: Up to 1 oz/3 gal or 2.6 g/L in water

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 : 02 Jan 2014

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Product AS SOLD

GHS Classification : SKIN CORROSION/IRRITATION - Category 1A

SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

GHS label elements

Signal word : Danger

Symbol :

Hazard statements : Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Do not breathe dust or mist. Wash hands thoroughly after handling. Mixing this product with acid or

ammonia releases chlorine gas.

Response: IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

Product AT USE DILUTION

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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Section 2. Hazards identification

do. Continue rinsing. Immediately call a

POISON CENTER or physician.

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information. No other specific measures identified. See section 13 for waste disposal

information.

Other hazards : Handling and/or processing of this material

may generate a dust which can cause mechanical irritation of the eyes, skin, nose and

throat.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number	
PENTASODIUM TRIPHOSPHATE	25	7758-29-4	
SODIUM HYDROXIDE	20	1310-73-2	
SODIUM CARBONATE	20 - 50	497-19-8	
SODIUM CHLORIDE	5 - 20	7647-14-5	
SODIUM METASILICATE troclosene sodium, dihydrate oxirane, methyl-, polymer with oxirane	5 - 20 1 - 5 1 - 5	6834-92-0 51580-86-0 9003-11-6	

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Product AS SOLD

Eve contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention

immediately.

: Take off immediately all contaminated clothing. Skin contact

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

: Remove victim to fresh air and keep at rest in a Inhalation

position comfortable for breathing. Get medical

attention immediately.

: Get medical attention immediately. Rinse mouth. Ingestion

Do not induce vomiting.

Product AT USE DILUTION

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get

medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention immediately.

Get medical attention immediately. Rinse

mouth. Do not induce vomiting.

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The Notes to physician

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing

media

: Use dry chemical powder.

Specific hazards arising

from the chemical Hazardous thermal decomposition products : No specific fire or explosion hazard.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides

Specific fire-fighting

methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without

suitable training.

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

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 Methods for cleaning up

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

: 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.

Product AT USE DILUTION

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.

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

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD

Handling

 Do not get in eyes or on skin or clothing. Do not breathe dust. Use only with adequate ventilation. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine

gas.

Storage

: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: -30 and 40°C

Product AT USE DILUTION

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
SODIUM HYDROXIDE chlorine	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³ ACGIH TLV (United States, 3/2012). STEL: 2.9 mg/m³ 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours. OSHA PEL (United States, 6/2010). CEIL: 3 mg/m³ CEIL: 1 ppm NIOSH REL (United States, 6/2009). CEIL: 0.5 ppm 15 minutes. CEIL: 1.45 mg/m³ 15 minutes.

Product AS SOLD

Appropriate engineering controls

: 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.

Personal protection

Eye protection

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the

goggles.

Hand protection Skin protection

Use chemical-resistant, impervious gloves.
Use synthetic apron, other protective equipment as pecessary to prevent skin contact

as necessary to prevent skin contact.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

Product AT USE DILUTION Use only with adequate ventile

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.

Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Use chemical-resistant, impervious gloves.
Use synthetic apron, other protective

equipment as necessary to prevent skin contact.

A respirator is not needed under normal and intended conditions of product use.

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Powder

Color : Tan [Light]

Odor : chlorine

pH : 13 (1%)

Flash point : > 100°C

Explosion limits : Not available.

Product AT USE DILUTION

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

Section 9. Physical and chemical properties

Flammability (solid,

: Not available.

gas)

Melting point: Not available.Boiling point: Not available.Evaporation rate: Not available.

(butyl acetate = 1)

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : Only known value: 2.12 (Water = 1) (sodium

hydroxide).

Solubility : Not available. **Partition coefficient:** : Not available.

n-octanol/water

Auto-ignition

: Not available.

temperature Decomposition

: Not available.

temperature

Odor threshold : Not available.

Viscosity : Kinematic (room temperature): 0 cm²/s (0 cSt)

Section 10. Stability and reactivity

Product AS SOLD

Stability: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Materials to avoid

: No specific data.

: Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: moisture.

Highly reactive or incompatible with the following materials: moisture. Slightly reactive or incompatible with the following materials: metals.

Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia

releases chlorine gas.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Ingestion

Product AS SOLD

Symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Respiratory tract irritation

Product AT USE DILUTION

Adverse symptoms may include the following:

pain watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Section 11. Toxicological information

Ingestion: Adverse symptoms may include the following:

stomach pains

Acute toxicity

Eye contact : Causes serious eye damage.

Skin contact: Causes severe burns.

Inhalation: May cause respiratory irritation.

Ingestion: May cause burns to mouth, throat and stomach.

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

Toxicity data

Product/ingredient name

sodium carbonate	LC50 Inhalation Dusts and mists	Rat	1.15 mg/l
	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg 2800 mg/kg
triphosphoric acid, pentasodium salt	LD50 Dermal LD50 Oral	Rabbit Rat	>4650 mg/kg 3050 mg/kg
sodium chloride	LC50 Inhalation	Rat	>10.5 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	>10000 mg/kg
	LD50 Oral	Rat	3000 mg/kg
disodium metasilicate	LD50 Oral	Rat	500 mg/kg
troclosene sodium, dihydrate	LD50 Dermal	Rat	>5000 mg/kg
·	LD50 Oral	Rat	1823 mg/kg
oxirane, methyl-, polymer with oxirane	LC50 Inhalation	Rat	0.147 mg/l
	Dusts and mists		
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>2000 mg/kg

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is toxic to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
sodium carbonate	Acute EC50 200 mg/l	Daphnia	48 hours
triphosphoric acid, pentasodium salt	Acute EC50 >100 mg/l	Daphnia	48 hours
sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours
sodium chloride	Acute LC50 5840 mg/l	Fish	96 hours
disodium metasilicate	Acute LC50 210 mg/l	Fish	96 hours
troclosene sodium, dihydrate	Acute EC50 0.196 mg/l	Daphnia	48 hours
oxirane, methyl-, polymer with oxirane	Acute LC50 >100 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD

Disposal methods

 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

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.

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.

DOT

DOT Classification UN3262

DOT Proper shipping nameCorrosive solid, basic, inorganic, n.o.s. (Contains sodium hydroxide)

Class 8
Packing group III

IMO/IMDG

IMO/IMDG Classification UN3262

IMO/IMDG Proper shipping name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide). Marine

pollutant (troclosene sodium, dihydrate)

Class 8
Packing group III

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

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

<u>California Prop. 65</u> : No listed substance

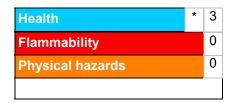
Section 16. Other information

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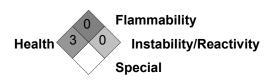
Section 16. Other information

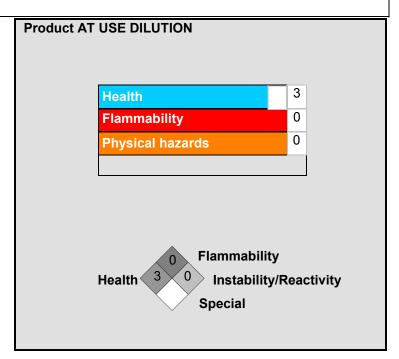
Product AS SOLD

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



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





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Prepared by : Regulatory Affairs
1-800-352-5326

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.