Material Safety Data Sheet



APEX CHLORINE FREE MACHINE DETERGENT

1. Product and company identification

Trade name of product : APEX CHLORINE FREE MACHINE DETERGENT

Product use : Machine Warewashing Detergent

Product dilution information: Up to 3.2 oz/10gal or 2.4 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-352-5326

Code : 914230 **Date of issue** : **20-July-2012**

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 : Solid

Emergency overview

: WARNING!

CAUSES EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Potential acute health effects

Product AS SOLD

Eyes: Irritating to eyes.

Skin: Irritating to skin.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Product AT USE DILUTION

Liquid. CAUTION!

No specific hazard. No specific hazard.

Product AT USE DILUTION

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

SODIUM CARBONATE 497-19-8 >50 alcohols, c13-15-branched and linear, butoxylated ethoxylated 111905-53-4 1 - 5

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.

First aid measures 4.

Product AS SOLD

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get

medical attention if irritation persists.

Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Inhalation : No special measures required. Treat symptomatically.

Ingestion : Get medical attention if symptoms occur. **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 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.

Accidental release measures 6.

Product AS SOLD

Personal precautions

precautions

Environmental

: Use personal protective equipment as required.

: Avoid contact of large amounts of spilled material and

runoff with soil and surface waterways.

required.

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

Use personal protective equipment as

Methods for

cleaning up

: Use a water rinse for final clean-up.

Use a water rinse for final clean-up.

Product AT USE DILUTION

Handling and storage 7.

Product AS SOLD

Handling : Avoid contact with eyes, skin and clothing. Do not

breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

: Keep out of reach of children. Store in a closed **Storage**

container.

Do not store above the following temperature: 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 : Safety eyewear should be used when there is a

likelihood of exposure.

Hands: For prolonged or repeated handling, use the following

type of gloves: Impervious gloves.

Skin: No protective equipment is needed under normal use

conditions.

Respiratory: Wear appropriate respirator when ventilation is

inadequate and occupational exposure limits are

exceeded.

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.

Product AT USE DILUTION

Liquid.

> 100°C

Faint odor

Colorless [Light]

10.65 to 10.91

Ingredient	Exposure limits
SUCROSE	NIOSH REL (United States, 6/2009). TWA: 5 mg/m³ 10 hour(s). Form: Respirable fraction TWA: 10 mg/m³ 10 hour(s). Form: Total

9. Physical and chemical properties

Product AS SOLD

Physical state : Solid Flash point : > 100°C

Color : Off-white [Light]
Odor : Faint odor

pH : 10.7 to 11.1 [Conc. (% w/w): 1%]

Boiling/condensation : $>100^{\circ}$ C ($>212^{\circ}$ F)

point

Relative density: 0.999 to 1.001

Solubility : Easily soluble in the following materials: cold water

and hot water.

10. Stability and reactivity

Product AS SOLD

Stability : The product is stable. Under normal conditions of storage and use, hazardous

polymerization will not occur.

Hazardous decomposition : Under normal of

products

products

Reactivity

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

Slightly reactive or incompatible with the following materials: acids.

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: Irritating to eyes.

Skin: Irritating to skin.

Inhalation: No known significant effects or critical hazards.

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.

11. Toxicological information

Ingestion: 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: upper respiratory

tract, teeth.

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

Product AT USE DILUTION

Not regulated.

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

<u>DOT</u>

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification Not regulated.

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

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

HCS : Irritating 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

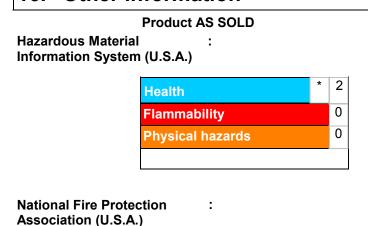
Form R - Reporting : No listed substance

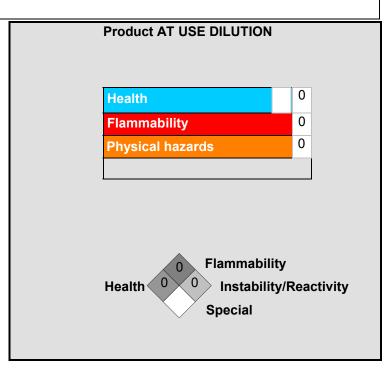
requirements

California Prop. 65 : No listed substance

16. Other information

Health





Date of issue : 20-July-2012
Responsible name : Regulatory Affairs
1-800-352-5326

Indicates information that has changed from previously issued version.

Flammability

Special

Instability/Reactivity

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.