

# 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 0.21% 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 : 11-April-2011

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. Avoid breathing dust. 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.

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.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## 3. Composition/information on ingredients

### Product AS SOLD

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
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.

## 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Eye contact</b>	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
<b>Skin contact</b>	: 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.	No known effect after skin contact. Rinse with water for a few minutes.
<b>Inhalation</b>	: If inhaled, remove to fresh air.	No special measures required. Treat symptomatically.
<b>Ingestion</b>	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.

## 5. Fire-fighting measures

### Product AS SOLD

<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
<b>Fire-fighting media and instructions</b>	: Use an extinguishing agent suitable for the surrounding fire.  Dike area of fire to prevent runoff. No specific fire or explosion hazard.
<b>Special protective equipment for fire-fighters</b>	: 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
<b>Personal precautions</b>	: Use personal protective equipment as required.	Use personal protective equipment as required.
<b>Environmental precautions</b>	: Avoid contact of large amounts 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.
<b>Methods for cleaning up</b>	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

## 7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
<b>Handling</b>	: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	Wash thoroughly after handling.
<b>Storage</b>	: Keep out of reach of children. Store in a closed container. Do not store above the following temperature: 50°C	Keep out of reach of children.

## 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
<b>Engineering measures</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Personal protection</b>		
<b>Eyes</b>	: Safety eyewear should be used when there is a likelihood of exposure.	No protective equipment is needed under normal use conditions.
<b>Hands</b>	: For prolonged or repeated handling, use the following type of gloves: Impervious gloves.	No protective equipment is needed under normal use conditions.
<b>Skin</b>	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
<b>Respiratory</b>	: A respirator is not needed under normal and intended conditions of product use.	No special protection is required.

Consult local authorities for acceptable exposure limits.

## 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
<b>Physical state</b>	: Solid	Liquid.
<b>Flash point</b>	: > 100°C	> 100°C
<b>Color</b>	: Off-white [Light]	Colorless
<b>Odor</b>	: Faint odor	Faint odor
<b>pH</b>	: 10.7 to 11.1 [Conc. (% w/w): 1%]	10.3 to 10.7
<b>Boiling/condensation point</b>	: >100°C (>212°F)	
<b>Relative density</b>	: 0.999 to 1.001	
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water.	

## 10. Stability and reactivity

<b>Product AS SOLD</b>		
<b>Stability</b>	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.	
<b>Reactivity</b>	: Slightly reactive or incompatible with the following materials: acids.	
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
<b>Hazardous polymerization</b>	: Under normal conditions of storage and use, hazardous polymerization will not occur.	

## 11. Toxicological information

### Potential acute health effects

	Product AS SOLD	Product AT USE DILUTION
<b>Eyes</b>	: Irritating to eyes.	No known significant effects or critical hazards.
<b>Skin</b>	: Irritating to skin.	No known significant effects or critical hazards.
<b>Inhalation</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.	No known significant effects or critical hazards.

### Product AS SOLD

### Other adverse effects

## 11. Toxicological information

**Target organs** : Contains material which may cause damage to the following organs: upper respiratory tract.

## 12. Ecological information

**Ecotoxicity** : Not reported

## 13. Disposal considerations

**Product AS SOLD**  
**Waste disposal** : Diluted product can be flushed to sanitary sewer.  
 Discard empty container in trash.

**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** : Not regulated.

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** : Irritating material  
 Target organ effects

**Product AT USE DILUTION**  
 Not regulated.

**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>
<b>Form R - Reporting requirements</b>	: No listed substance		

**California Prop. 65** : No listed substance

## 16. Other information

**Product AS SOLD**  
**Hazardous Material Information System (U.S.A.)**

Health	*	2
Flammability		0
Physical hazards		0

:

**Product AT USE DILUTION**

Health		0
Flammability		0
Physical hazards		0

## 16. Other information

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



Date of issue : 11-April-2011

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.