Material Safety Data Sheet



KEYSTONE LIQUID POT AND PAN DETERGENT

1. Product and company identification

Trade name of product : KEYSTONE LIQUID POT AND PAN DETERGENT

Product use : Manual Warewashing Detergent

Product dilution information: Up to 1.5 oz/10gal or 1.1 mL/L in water

Supplier's information: Ecolab Co.

5105 Tomken Road Mississauga ON L4W 2X5

1-800-352-5326

Code : 916265-02

Date of issue : 12-August-2013

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 : Liquid.

Emergency : WARNING!

overview

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes. Wash thoroughly after

handling

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD

Eyes : Slightly irritating to the eyes.

Skin: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

atly irritating to the eyes.

No known significant effects or critical

Product AT USE DILUTION

Product AT USE DILUTION

hazards. No know hazards.

Liquid.

CAUTION!

No specific hazard.

No specific hazard.

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

<u>Name</u>	CAS number	% by weight
SODIUM C14-16 OLEFIN SULFONATE	68439-57-6	7 - 13
poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, c10-16-alkyl ethers, sodium	68585-34-2	5- 10
salts		
COCAMINE OXIDE	61788-90-7	5- 10
SODIUM XYLENE SULFONATE	1300-72-7	1 - 5
ALCOHOL	64-17-5	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

Eye contact : Rinse with water for a few minutes.

Skin contact : No known effect after skin contact. Rinse with water

for a few minutes.

Inhalation : No special measures required. Treat symptomatically.

: Get medical attention if symptoms occur. Ingestion

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.

Fire-fighting measures 5.

Product AS SOLD

Auto-ignition temperature : Not available. Flammable limits : Not available.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Special remarks on fire hazards : Not available. Special remarks on explosion

hazards

: Not available.

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

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 : Use personal protective equipment as required.

Environmental precautions

: Avoid contact of large amounts of spilt material and

runoff with soil and surface waterways.

Methods for cleaning up

: Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilt material and runoff with soil and surface

waterways.

Use a water rinse for final clean-up.

7. Handling and storage

Product AS SOLD

Handling : Avoid contact with eyes. Wash thoroughly after

handling.

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

container.

Store between the following temperatures: 0 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 : No protective equipment is needed under normal use

conditions.

Hands : No protective equipment is needed under normal use

conditions.

Skin: No protective equipment is needed under normal use

conditions.

Respiratory: No special protection is required.

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.

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
	US ACGIH 3/2012 AB 4/2009 BC 4/2012 ON 7/2010 QC 9/2011	- 1000 - - 1000	- 1880 - - 1880	- - - -	1000 - 1000 1000	- - - -	- - - -	- - - -	- - - -	- - -	

9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid. Flash point : > 100°C

Product does not support combustion.

Colour : Blue. [Dark]
Odour : Floral

pH : 6.5 to 10 [Conc. (% w/w): 100%]

Boiling/ : >100°C (>212°F)

condensation

point

Melting/freezing: Not available.

point

Relative density : 1.017 to 1.067
Vapour pressure : Not available.
Vapour density : Not available.
Odour threshold : Not available.
Evaporation rate : Not available.

Viscosity : Dynamic (room temperature): 400 mPa·s (400 cP)

Dispersibility: Not available.

properties

Solubility : Easily soluble in the following materials: cold water

and hot water.

LogK_{ow}: Not available.

Product AT USE DILUTION

Liquid. > 100°C

Blue. [Light] Floral 7.33 to 7.57

Stability and reactivity 10.

Product AS SOLD

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

polymerisation will not occur.

Conditions of instability Not available. Reactivity Not available.

Hazardous decomposition

products

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

not be produced.

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

Toxicological information 11.

Potential acute health effects

Product AS SOLD

: Slightly irritating to the eyes. Eyes

Skin : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Product AT USE DILUTION

No known significant effects or critical

hazards.

Product AS SOLD

Potential chronic health effects

Carcinogenic effects : No known significant effects or critical hazards. **Mutagenic effects** : No known significant effects or critical hazards. **Teratogenic effects** : No known significant effects or critical hazards. Reproductive effects : No known significant effects or critical hazards. **Sensitization to Product** : No known significant effects or critical hazards.

Synergistic products (toxicologically)

: Not available.

Toxicity data

Product/ingredient name	Test	Route	Result	Species
sulfonic acids, c14-16-alkane hydroxy and c14-16-alkene, sodium salts	LD50	Dermal	6300 mg/kg	Rabbit
,	LD50	Oral	3983 mg/kg	Rat
amines, coco alkyldimethyl, n-oxides	LD50	Dermal	>2174 mg/kg	Rat
•	LD50	Oral	846 mg/kg	Rat
ethanol	LD50	Dermal	15800 mg/kg	Rabbit
	LD50	Oral	10470 mg/kg	Rat
	LC50	Inhalation	117 mg/l	Rat
poly(oxy-1,2-ethanediyl), .alphasulfo	LD50	Dermal	>2000 mg/kg	Rat
omegahydroxy-, c10-16-alkyl ethers,				
sodium salts				
	LD50	Oral	>2500 mg/kg	Rat
sodium xylenesulphonate	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Oral	>7000 mg/kg	Rat
	LC50	Inhalation	>6.2 mg/l	Rat

Other adverse effects

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, central nervous system (CNS).

12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

Product AS SOLD

: 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

TDG

TDG Classification Not regulated.

IMO/IMDG

Waste disposal

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

Product AT USE DILUTION

WHMIS: Not hazardous by WHMIS criteria.

Not hazardous by WHMIS criteria.

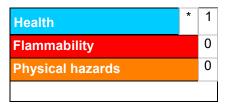
Canada inventory: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

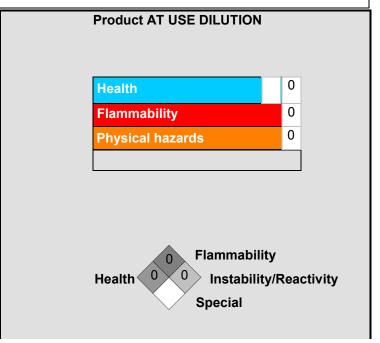
Product AS SOLD

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



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





16. Other information

Date of issue : 12-August-2013
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.