SAFETY DATA SHEET



KEYSTONE LIQUID POT AND PAN DETERGENT

Section 1. Chemical product and company identification

Product name KEYSTONE LIQUID POT AND PAN DETERGENT

Recommended use and

restrictions

: Manual Warewashing Detergent

Use only for the purpose on the product label.

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

Supplier's information : Ecolab Inc. Institutional Division

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

Code : 916265-02 Date of issue : 12 Aug 2013

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 : SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 2B

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.

Response : IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : No other specific measures identified.

: See section 13 for waste disposal information. Disposal

Other hazards : None known. **Product AT USE DILUTION**

Not classified.

No signal word.

No known significant effects or critical

hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product AS SOLD

Hazardous ingredients Concentration Range (%) CAS number

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Section 3. Composition/information on ingredients

SODIUM C14-16 OLEFIN SULFONATE	5 - 20	68439-57-6
poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-,	5 - 20	68585-34-2
c10-16-alkyl ethers, sodium salts		
COCAMINE OXIDE	5 - 20	61788-90-7
SODIUM XYLENE SULFONATE	1 - 5	1300-72-7
ALCOHOL	1 - 5	64-17-5
SODIUM CHI ORIDE	1 - 5	7647-14-5

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.

Section 4. First aid measures

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

Continue rinsing. Get medical attention if

irritation persists.

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

water for a few minutes.

Inhalation: No special measures required. Treat

symptomatically.

Ingestion: Get medical attention if symptoms occur.

: No action shall be taken involving any personal risk or without suitable training. It may be

symptomatically.

Product AT USE DILUTION

with water for a few minutes.

water for a few minutes.

No known effect after eye contact. Rinse with

No known effect after skin contact. Rinse

Get medical attention if symptoms occur.

No special measures required. Treat

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

been ingested or inhaled.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Protection of first-

Suitable fire extinguishing

media

aiders

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: Decomposition products may include the following materials:

Hazardous thermal decomposition products

carbon dioxide carbon monoxide sulfur 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

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

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 Environmental

precautions

: Use personal protective equipment as required.

: Avoid contact of large amounts of spilled material

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

Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD

Handling : Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Storage : Keep out of reach of children. Keep container

tightly closed.

Store between the following temperatures: 0 and

50°C

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes. OSHA PEL (United States, 6/2010). TWA: 1900 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
	NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours.

Product AS SOLD

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

Personal protection

Eye protection : No protective equipment is needed under normal

use conditions.

Hand protection: No protective equipment is needed under normal

use conditions.

Skin protection: No protective equipment is needed under normal

use conditions.

Respiratory protection

: A respirator is not needed under normal and

intended conditions of product use.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under

No protective equipment is needed under

normal use conditions.

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

Hygiene measures : 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.

Product AT USE DILUTION

Liquid.

Floral

Blue [Light]

7.33 to 7.57 > 100°C

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid.

Color : Blue [Dark]

Odor : Floral

pH : 6.5 to 10 (100%)

Flash point : > 100°C

Product does not support combustion.

Explosion limits: Not available. **Flammability (solid,**: Not available.

gas)

Melting point: Not available.Boiling point: >100°C (>212°F)Evaporation rate: Not available.

(butyl acetate = 1)

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

Relative density : 1.017 to 1.067 (Water = 1)

Solubility : Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition: Not available.

temperature

Decomposition: Not available.

temperature

Odor threshold : Not available.

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

cP)

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 : No specific data.

Materials to avoid : Not available.

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, Inhalation, Ingestion

Section 11. Toxicological information

Product AS SOLD

Symptoms

Eye contact: Adverse symptoms may include the following:

irritation watering redness

Skin contact: No specific data.Inhalation: No specific data.Ingestion: No specific data.

Acute toxicity

Eye contact : Causes eye irritation.

Skin contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

sulfonic acids, c14-16-alkane hydroxy and LD50 Dermal

c14-16-alkene, sodium salts

poly(oxy-1,2-ethanediyl), .alpha.-sulfo-. omega.-hydroxy-, c10-16-alkyl ethers,

sodium salts

amines, coco alkyldimethyl, n-oxides

Benzenesulfonic acid, dimethyl-, sodium salt LC50 Inhalation

(1:1)

,

ethanol

sodium chloride

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.

So known significant effects or critical hazards.

Product AT USE DILUTION

No specific data.

No specific data. No specific data. No specific data.

No known significant effects or critical

hazards.

6300 mg/kg

3983 mg/kg

>2000 mg/kg

>2500 mg/kg

>2174 mg/kg

>2000 mg/kg

>7000 mg/kg

15800 mg/kg

10470 mg/kg

>10.5 mg/l

3000 mg/kg

Rabbit >10000 mg/kg

846 mg/kg

>6.2 mg/l

117 mg/l

Rabbit

Rat

Rabbit

Rabbit

LD50 Oral

LD50 Oral

LD50 Oral

LD50 Oral

LD50 Oral

LD50 Oral

Vapor LD50 Dermal

LD50 Dermal

Dusts and mists LD50 Dermal

LC50 Inhalation

LC50 Inhalation

Dusts and mists LD50 Dermal

LD50 Dermal

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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** sulfonic acids, c14-16-alkane hydroxy and Acute LC50 4.2 mg/l Fish 96 hours c14-16-alkene, sodium salts poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-Acute LC50 28 mg/l Fish 96 hours hydroxy-, c10-16-alkyl ethers, sodium salts amines, coco alkyldimethyl, n-oxides Acute LC50 <1 mg/l Fish 96 hours Benzenesulfonic acid, dimethyl-, sodium salt (1: Acute EC50 230 mg/l Aquatic plants 96 hours 1) ethanol Acute LC50 11000 mg/l Fish 96 hours sodium chloride Acute LC50 5840 ma/l Fish 96 hours

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

Section 13. Disposal considerations

Product AS SOLD

Disposal methods: 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.

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.

<u>DOT</u>

DOT Classification Not regulated.

<u>IMO/IMDG</u>

IMO/IMDG Classification Not regulated.

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 : No listed substance

requirements

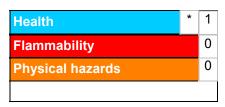
California Prop. 65 : No listed substance

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Section 16. Other information

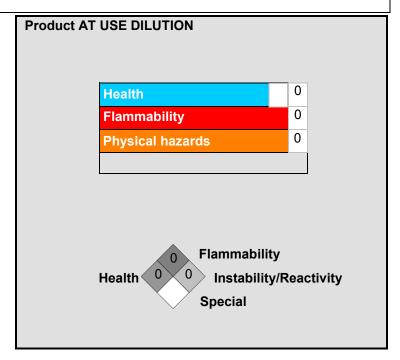
Product AS SOLD

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



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





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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.