SAFETY DATA SHEET



KEYSTONE LIQUID RINSE ADDITIVE

Section 1. Chemical product and company identification

Product name KEYSTONE LIQUID RINSE ADDITIVE

Recommended use and

restrictions

: Rinse additive

Use only for the purpose on the product label.

Product dilution information: Up to 311ppm in water

Supplier's information : Ecolab Inc. Institutional Division

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

Code : 913640-14 Date of issue : 26 Mar 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

AQUATIC TOXICITY (ACUTE) - Category 2

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Toxic to aquatic life.

Precautionary statements

Prevention : Avoid release to the environment. Wash hands

thoroughly after handling.

: IF IN EYES: Rinse cautiously with water for Response

> 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

CAS number **Hazardous ingredients** Concentration Range (%)

68002-97-1 alcohols, c10-16, ethoxylated 5 - 20

Page: 1/6

Section 3. Composition/information on ingredients

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

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

aiders 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

Specific hazards arising

from the chemical

Hazardous thermal

decomposition products

Specific fire-fighting

methods

Special protective equipment for fire-fighters

: Use water spray, fog or foam.

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

This material is toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

: 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.

: 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

: Use personal protective equipment as required.

Environmental precautions

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

Methods for cleaning up : Use a water rinse for final clean-up.

Product AT USE DILUTION

Product AT USE DILUTION

with water for a few minutes.

water for a few minutes.

symptomatically.

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

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

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

thoroughly after handling.

: Keep out of reach of children. Keep container Storage

tightly closed.

Store between the following temperatures: 0 and

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

Product AT USE DILUTION

contaminants.

normal use conditions.

normal use conditions.

normal use conditions.

Good general ventilation should be sufficient

to control worker exposure to airborne

No protective equipment is needed under

No protective equipment is needed under

No protective equipment is needed under

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

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.

: No protective equipment is needed under normal Hand protection

use conditions.

Skin protection : No protective equipment is needed under normal

use conditions.

Respiratory protection

Hygiene measures

: A respirator is not needed under normal and

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

Color : Green [Dark] Odor : Odorless : 3.17 (100%) На : > 100°C Flash point

Product does not support combustion.

Explosion limits Flammability (solid,

: Not available. : 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 : 1.007 to 1.027 (Water = 1)

Product AT USE DILUTION

Liquid. Clear Odorless 7.5 to 8.5 > 100°C

Section 9. Physical and chemical properties

Solubility : Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition temperature

: Not available.

Decomposition

: Not available.

temperature

Odor threshold : Not available.

Viscosity : Not available.

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

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

products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

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.

Product AT USE DILUTION

No specific data.

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

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.

Toxicity data

Product/ingredient name

Result

Species

Dose

LC50 Inhalation Dusts

and mists

LD50 Dermal

Rat

>2000 mg/l

LD50 Dermal Rat >2000 mg/kg LD50 Oral Rat >1000 mg/kg

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Section 11. Toxicological information

: No known significant effects or critical hazards. **Teratogenicity 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** alcohols, c10-16, ethoxylated Acute EC50 > 0.1 mg/l Daphnia 48 hours

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

Section 13. Disposal considerations

Product AS SOLD

: Diluted product can be flushed to sanitary sewer. Disposal methods

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.

DOT

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.

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

CAS number **SARA 313 Product name Concentration**

Form R - Reporting

requirements

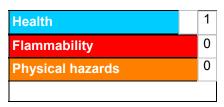
: No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

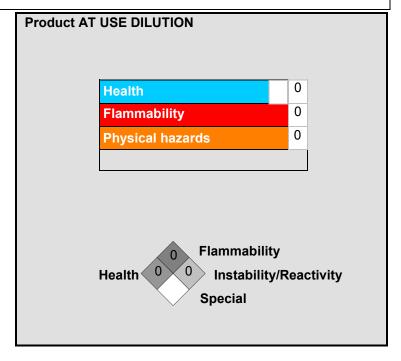
Product AS SOLD

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



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





Date of issue : 26 Mar 2013
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.