SAFETY DATA SHEET



KEYSTONE APEX RINSE ADDITIVE

Section 1. Chemical product and company identification

Product name : KEYSTONE APEX RINSE ADDITIVE

Recommended use and

restrictions

: Rinse additive

Use only for the purpose on the product label.

Product dilution information : Up to 0.5 oz/100 gal or 4.4 mL/100 L

Supplier's information : Ecolab Inc. Institutional Division

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

Code : 903397-05

Date of issue : 18 Feb 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 : Not applicable.

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.

Not applicable.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients Concentration Range (%) CAS number

 oxirane, methyl-, polymer with oxirane
 20 - 50
 9003-11-6

 UREA
 20 - 50
 57-13-6

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

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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.

: Get medical attention if symptoms occur. Ingestion

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

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Protection of first-

Suitable fire extinguishing

media

aiders

Specific hazards arising

from the chemical

Hazardous thermal

decomposition products

: No specific fire or explosion hazard.

: Use water spray, fog or foam.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen 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

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 : 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

: Collect spillage. 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

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

thoroughly after handling.

: Keep out of reach of children. Storage

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children.

Store between the following temperatures: 0 and

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
UREA	AIHA WEEL (United States, 10/2011).
	TWA: 10 mg/m³ 8 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

Hygiene measures

: 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.

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.

A respirator is not needed under normal and

intended conditions of product use.

before reusing. Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Extruded solid. Color : Green [Dark] Odor : Odorless На : 4.5 to 7 (1%) Flash point $: > 100^{\circ}C$

Product does not support combustion.

Explosion limits Flammability (solid, gas)

: Not available. : Not available.

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 : Not Available

Product AT USE DILUTION

Liquid. Colorless Odorless 6.5 to 8.5 > 100°C

: 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

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

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, 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

urea

Product/ingredient name

oxirane, methyl-, polymer with oxirane LC50 Inhalation Dusts Rat 0.147 mg/l

and mists

LD50 Dermal Rabbit >2000 mg/kg LD50 Oral Rat >2000 mg/kg LC50 Inhalation Dusts Rat >2.71 mg/l

LC30 Illialation Dusts

and mists

 LD50 Dermal
 Rat
 8200 mg/kg

 LD50 Oral
 Rat
 8471 mg/kg

Section 11. Toxicological information

alcohols, c10-16, ethoxylated LC50 Inhalation Dusts Rat >50 mg/l

and mists

 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.
 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.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient nameResultSpeciesExposureoxirane, methyl-, polymer with oxirane
ureaAcute LC50 >100 mg/l
Acute LC50 127.9 mg/lFish
Fish
Acute LC50 >0.1 mg/l96 hours
Polymeralcohols, c10-16, ethoxylatedAcute EC50 >0.1 mg/lDaphnia48 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.

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

SARA 313 Product name CAS number Concentration

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Section 15. Regulatory information

Form R - Reporting

: No listed substance

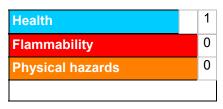
requirements

California Prop. 65

: No listed substance

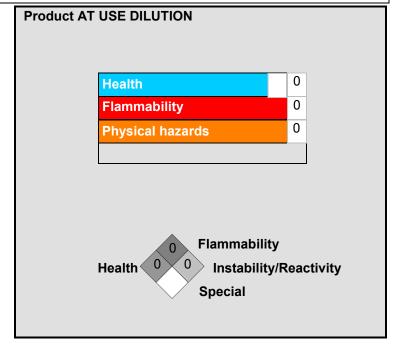
Section 16. Other information





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.