

Material Safety Data Sheet

KEYSTONE PRESOAK READY-TO-USE



1. Product and company identification

Trade name of product : KEYSTONE PRESOAK READY-TO-USE

Product use : Presoak

Product dilution information : Use 1 tablet in 3 gallons (11.36 L) of water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 903527-04

Date of issue : 09-February-2012

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 : Tablet

Emergency overview : WARNING!

CAUSES EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Potential acute health effects

Product AS SOLD

Eyes : Severely 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	20 - 50
CITRIC ACID	77-92-9	20 - 50
SODIUM PERBORATE	7632-04-4	5 - 20
alcohols, c10-12, ethoxylated propoxylated	68154-97-2	5 - 20
BORIC ACID	10043-35-3	5 - 20

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
Eye contact	: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: 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.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
metal oxide/oxides

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific fire or explosion hazard.

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.

6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	: 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.
Methods for cleaning up	: 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
Handling	: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products - will cause chlorine gas. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a closed container. Store between the following temperatures: 0 and 35°C	Keep out of reach of children.

8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Engineering measures	: 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.
Personal protection		
Eyes	: Wear eye protection.	No protective equipment is needed under normal use conditions.
Hands	: For prolonged or repeated handling, use the following type of gloves: Impervious gloves.	No protective equipment is needed under normal use conditions.
Skin	: No protective equipment is needed under normal use conditions.	No protective equipment is needed under normal use conditions.
Respiratory	: Avoid breathing dust.	No special protection is required.

Ingredient	Exposure limits
SODIUM PERBORATE	ACGIH TLV (United States, 2/2010). STEL: 6 mg/m ³ 15 minute(s). Form: Inhalable fraction TWA: 2 mg/m ³ 8 hour(s). Form: Inhalable fraction
BORIC ACID	ACGIH TLV (United States, 2/2010). STEL: 6 mg/m ³ 15 minute(s). Form: Inhalable fraction TWA: 2 mg/m ³ 8 hour(s). Form: Inhalable fraction

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Tablet	Liquid.
Flash point	: > 100°C	> 100°C
Color	: White to yellowish [Light]	Blue [Light]
Odor	: citrus	citrus
pH	: 8 to 9.5 [Conc. (% w/w): 1%]	9.16
Relative density	: 1.2	
Dispersibility properties	: Easily dispersible in the following materials: cold water and hot water.	
Solubility	: Easily soluble in the following materials: cold water and hot water.	

10. Stability and reactivity

Product AS SOLD		
Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.	
Reactivity	: Do not mix with bleach or other chlorinated products - will cause chlorine gas.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.	

11. Toxicological information

Potential acute health effects

11. Toxicological information

	Product AS SOLD
Eyes	: Severely irritating to eyes.
Skin	: Irritating to skin.
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.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Product AS SOLD

Potential chronic health effects

Reproductive toxicity : Contains material which may cause reproductive effects based on animal data.

Other adverse effects

Target organs : Contains material which may cause damage to the following organs: kidneys, the nervous system, gastrointestinal 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

SARA 313

Product name

CAS number

Concentration

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

15. Regulatory information

16. Other information

Product AS SOLD

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

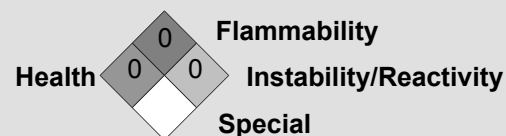
Health	2
Flammability	0
Physical hazards	0

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



Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0



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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.