

Material Safety Data Sheet

ECOTEMP ULTRA KLENE

ECOLAB

ECOTEMP ULTRA KLENE

3 May 2012

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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 immediately.	No known effect after eye contact. Rinse with water for a few minutes.	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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention.	No special measures required. Treat symptomatically.	
Ingestion	If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	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 phosphorus oxides metal oxide/oxides : Use an extinguishing agent suitable for the surrounding fire.
Fire-fighting media and instructions	Dike area of fire to prevent runoff. In a fire or if heated, a pressure increase will occur and the container may burst. : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special protective equipment for fire-fighters	

6. Accidental release measures		Product AS SOLD	Product AT USE DILUTION
Personal precautions		Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.	Use personal protective equipment as required.
	Environmental precautions	Avoid contact 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		Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

6. Accidental release measures

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Methods for cleaning up	: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for final clean-up.		

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7. Handling and storage Product AS SOLD Handling Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Storage Keep out of reach of children. Store in a closed container. Keep container tightly closed. Do not store above the following temperature: 50°C		Product AT USE DILUTION Wash thoroughly after handling. Keep out of reach of children.	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 Highly reactive or incompatible with the following materials: acids. 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.
8. Exposure controls/personal protection Product AS SOLD Engineering measures Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. Personal protection Eyes Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles. Hands Use chemical-resistant, impervious gloves. Skin Use synthetic apron, other protective equipment as necessary to prevent skin contact. Respiratory Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.		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.	11. Toxicological information Potential acute health effects Product AS SOLD Eyes Corrosive to eyes. Skin Corrosive to the skin. Inhalation Severely irritating to the respiratory system. Ingestion Causes burns to mouth, throat and stomach. May be harmful if swallowed. Product AS SOLD Other adverse effects Target organs Contains material which may cause damage to the following organs: upper respiratory tract. 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.
9. Physical and chemical properties Product AS SOLD Physical state Liquid. Flash point > 100°C Color Red [Dark] Odor Odorless pH 13.5 [Conc. (% w/w): 100%] Relative density 1.25 Solubility Easily soluble in the following materials: cold water and hot water.		Product AT USE DILUTION Liquid. > 100°C pink [Light] Odorless 10.6 to 11.3	12. Ecological information Ecotoxicity Not reported
13. Disposal considerations Product AS SOLD Waste disposal Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.		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 DQI DOT Classification UN1824 DOT Proper shipping name Sodium hydroxide solution Class 8 Packing group II IMO/IMDG IMO/IMDG Classification UN1824 IMO/IMDG Proper shipping name SODIUM HYDROXIDE SOLUTION

14. Transport information

Class 8
Packing group II

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
HCS : Corrosive material
Classification : Target organ effects

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

Form R - Reporting : No listed substance
requirements

California Prop. 65 : No listed substance

CAS number Concentration

Product AT USE DILUTION
Not regulated.

16. Other information

Product AS SOLD
Hazardous Material
Information System (U.S.A.)

Health	3
Flammability	0
Physical hazards	0

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

Health	3	0	0
Flammability			
Instability/Reactivity			
Special			

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1-800-352-5326

Indicates information that has changed from previously issued version.
Notice to reader

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

Health	0	0	0
Flammability			
Instability/Reactivity			
Special			

16. Other information

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.

