Material Safety Data Sheet

ECOLAB

LIQUID ASSURE

8011486

Section 1. Chemical product and company identification

Trade name

: LIQUID ASSURE

Product use

: Presoak

Supplier

Ecolab Inc. Institutional Division

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

Code Date of issue : 917823

23-April-2008

EMERGENCY HEALTH INFORMATION: 1-800-328-0026 Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

	CAS number	% by weight
Name sodium hydroxide	1310-73-2	2
sodium carbonate	497-19-8	5 - 20
disodium N-[2-(carboxylatomethoxy)ethyl]-N-[2-[(1-oxododecyl)amino]ethyl]glycinate	68298-20-4	1 - 5

Section 3. Hazards identification

Physical state

: Liquid. [Liquid.] : DANGER!

Emergency overview

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

CAUSES RESPIRATORY TRACT IRRITATION.

Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after

handling.

Potential acute health effects

: Corrosive to eyes. Eyes : Corrosive to the skin. Skin

: Severely irritating to the respiratory system. Inhalation : Causes burns to mouth, throat and stomach Ingestion

See toxicological information (section 11)

Section 4. First aid measures

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

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.

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 immediately.

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.

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Section 5. Fire fighting measures

Flash point

: > 100°C

Hazardous thermal decomposition products

Product does not support combustion. : Decomposition products may include the following materials

carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

Special protective equipment for fire-fighters

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

Section 6. Accidental release measures

precautions

: Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

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. Keep container in a cool, well-ventilated area. Keep container

tightly closed.

Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

: Use chemical-resistant, impervious gloves. Hands

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.

Name sodium hydroxide **Exposure limits** ACGIH TLV (United States, 1/2008).

C: 2 mg/m3

OSHA PEL (United States, 11/2006). TWA: 2 mg/m3 8 hour(s). NIOSH REL (United States, 12/2001).

CEIL: 2 mg/m³

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Section 9. Physical and chemical properties

: Liquid. [Liquid.] Physical state Blue. [Light] Color Odor : Odorless.

: 13 [Conc. (% w/w): 100%]

Relative density : 1.142

Dispersibility : Easily dispersible in the following materials: cold water and hot water.

properties

: Easily soluble in the following materials: cold water and hot water. Solubility

Section 10. Stability and reactivity

: The product is stable. Under normal conditions of storage and use, hazardous Stability

polymerization will not occur.

Reactivity Highly reactive or incompatible with the following materials: acids.

Reactive or incompatible with the following materials: metals.

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

should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes. Skin : Corrosive to the skin.

Inhalation : Severely irritating to the respiratory system. Ingestion : Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs : Contains material which may cause damage to the following organs: lungs, upper

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority

Waste : Unused product is D002 (Corrosive)

classification

Consult your local or regional authorities.

Section 14. Transport information

See shipping documents for specific transportation information.

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Section 15. Regulatory information

HCS Classification

: Corrosive material

Target organ effects

U.S. Federal regulations

SARA 302/304/311/312 extremely hazardous substances. No products were

SARA 302/304 emergency planning and notification: No products were

TSCA 8(b) inventory : All components are listed or exempted.

California Prop. 65

: No products were found

Section 16. Other information

Hazardous Material

Information System (U.S.A.)



Date of issue

: 23-April-2008.

Responsible name Date of previous issue : Regulatory Affairs : 28-April-2005.

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.