# **Material Safety Data Sheet**



Tri-Star L2000 XP

# Section 1. Chemical product and company identification

Trade name : Tri-Star L2000 XP
Product use : Laundry detergent

Supplier : Ecolab Inc. Institutional Division

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

Code : 913099

Date of issue 11-August-2009

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

#### Section 2. Hazards identification

Physical state : Liquid. [Emulsion.]

Emergency overview

: DANGER!

CAUSES DIGESTIVE TRACT, EYE AND SKIN BURNS.

MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

#### Potential acute health effects

Eyes : Corrosive to eyes.

Skin : Corrosive to the skin.

**Inhalation** : No known significant effects or critical hazards.

**Ingestion**: Causes burns to mouth, throat and stomach. May be harmful if swallowed.

See toxicological information (section 11)

# Section 3. Composition/information on ingredients

Name	CAS number	% by weight
SODIUM HYDROXIDE	1310-73-2	22
poly(oxy-1,2-ethanediyl), a-(2-propylheptyl)-w-hydroxy-	160875-66-1	5 - 20
alcohols, c12-16, ethoxylated	68551-12-2	5 - 20

## 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

immediately.

**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.

**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

: > 100°C Flash point

Product does not support combustion.

**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.

for fire-fighters

Special protective equipment: 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

Personal 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.

# Section 7. Handling and storage

Handling

Do not ingest. Do not get in eyes, on skin, or on clothing. 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.

Store between the following temperatures: 10 and 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

Hands Skin

: Use chemical-resistant, impervious gloves.

Respiratory

: Use synthetic apron, other protective equipment as necessary to prevent skin contact. : Wear appropriate respirator when ventilation is inadequate and occupational exposure limits

are exceeded.

Name SODIUM HYDROXIDE **Exposure limits** 

ACGIH TLV (United States, 1/2008).

CEIL: 2 ma/m<sup>3</sup>

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m<sup>3</sup> 8 hour(s).

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# Section 9. Physical and chemical properties

: Liquid. [Emulsion.] Physical state

Color Blue. Odor : Faint odor.

Нα : 13 to 14 [Conc. (% w/w): 100%]

**Boiling/condensation** : >100°C (>212°F)

point

products

Relative density : 1.23 to 1.28 : Dynamic: 2500 cP **Viscosity** 

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

# Section 10. Stability and reactivity

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

polymerization will not occur.

Reactive or incompatible with the following materials: acids. Reactivity

Slightly reactive or incompatible with the following materials: organic materials,

metals and moisture.

Hazardous decomposition: 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.

# **Section 11. Toxicological information**

#### Potential acute health effects

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

Inhalation : No known significant effects or critical hazards.

Ingestion : Causes burns to mouth, throat and stomach. May be harmful if swallowed.

#### Potential chronic health effects

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

respiratory tract.

# Section 12. Ecological information

**Ecotoxicity data** : Not reported

### 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

requirements.

Waste : Unused product is D002 (Corrosive)

classification

Consult your local or regional authorities.

### 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.

**UN Classification** 

UN1824 **UN number** 

SODIUM HYDROXIDE SOLUTION Proper shipping name

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Class 8

Packing group ||

See shipping documents for specific transportation information.

# **Section 15. Regulatory information**

**HCS Classification** : Corrosive material

Target organ effects

U.S. Federal regulations

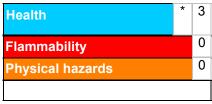
**TSCA 8(b) inventory**: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

<u>California Prop. 65</u>: No products were found.

### **Section 16. Other information**

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



Date of issue : 11-August-2009.
Responsible name : Regulatory Affairs
Date of previous issue : 29-April-2009.

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.