

Material Safety Data Sheet



TRI-STAR SOPHLITE

Section 1. Chemical product and company identification

Trade name : TRI-STAR SOPHLITE
Product use : Laundry product
Supplier :
Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 999118-02
Date of issue : 02-May-2005

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

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
Phosphoric acid	7664-38-2	15
propan-2-ol	67-63-0	2
poly(oxy-1,2-ethanediyl), alpha-[2-[bis(2-aminoethyl)methylammonio]ethyl]-omega-hydroxy-, n,n'- ditallow acyl derivs., me sulfates (salts)	68410-69-5	5 - 20
Oxalic acid	144-62-7	5 - 20

Section 3. Hazards identification

Physical state : Liquid. (Liquid.)
Emergency overview : Danger!

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.
HARMFUL IF SWALLOWED.
COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FIRE.
Do not ingest. Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Keep away from heat, sparks and flame. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
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 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. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : 83.8889 °C (Closed cup)
Product does not support combustion.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
Dike area of fire to prevent product run-off.
- Combustible liquid and vapor. May burn, but does not ignite readily. Under high temperatures or under moderate heating might release vapor in sufficient quantities to produce hazardous atmospheres with air.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Prevent entry into sewers, water courses, basements or confined areas.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- 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) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material 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. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
Store between 50 and 10°C

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the work-station location.
- 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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Name

Phosphoric acid

Exposure limits

ACGIH TLV (United States, 9/2004).

STEL: 3 mg/m³ 15 minute(s). Form: All forms

TWA: 1 mg/m³ 8 hour(s). Form: All forms

OSHA PEL (United States, 6/1993).

TWA: 1 mg/m³ 8 hour(s). Form: All forms

Oxalic acid

ACGIH TLV (United States, 9/2004).

STEL: 2 mg/m³ 15 minute(s). Form: All forms

TWA: 1 mg/m³ 8 hour(s). Form: All forms

OSHA PEL (United States, 6/1993).

TWA: 1 mg/m³ 8 hour(s). Form: All forms

propan-2-ol

ACGIH TLV (United States, 1/2004). Notes: ACGIH 2003 Adoption Refers to Appendix A -- Carcinogens.

STEL: 400 ppm 15 minute(s). Form: All forms
 TWA: 200 ppm 8 hour(s). Form: All forms
OSHA PEL (United States, 6/1993).
 TWA: 980 mg/m³ 8 hour(s). Form: All forms
 TWA: 400 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Liquid.)
 Color : Green.
 Odor : Floral.
 pH : 1.1 (100%)
 Boiling/condensation point : 100 °C
 Specific gravity : 1.099 (Water = 1)
 Viscosity : Dynamic: 110 cP
 Dispersion properties : Dispersed in hot water.Partially dispersed in cold water.
 Solubility : Soluble in hot water.Partially soluble in cold water.

Section 10. Stability and reactivity

Stability : The product is stable.
 Reactivity : Highly reactive with alkalis. Reactive with metals.

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes.
 Skin : Corrosive to the skin.
 Inhalation : Corrosive to the respiratory system.
 Ingestion : Harmful if swallowed. Causes burns to mouth, throat and stomach.
 Chronic effects on humans : Contains material which causes damage to the following organs: kidneys, lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses, throat.

Section 12. Ecological information

Products of degradation : These products are phosphates, carbon oxides (CO, CO₂) and water.

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. 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 classification : Unused product is D002 (Corrosive)

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1805	Phosphoric acid, liquid	8	III	Limited quantity Yes.

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Combustible liquid. Corrosive material. Target organ effects.
 U.S. Federal regulations : SARA 302/304/311/312 extremely hazardous substances: None.
 SARA 302/304 emergency planning and notification: None.

TSCA 8(b) inventory : All materials are listed or exempt.

SARA 313	Product name	Concentration
Form R - Reporting requirements:	propan-2-ol	1.201 - 3.4829

California prop. 65 : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health *	3
	Fire hazard	2
	Reactivity	0
	Personal protection	C

Date of issue : 02-May-2005.

Responsible name : Regulatory Affairs

Date of previous issue : 02-May-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.