

Material Safety Data Sheet

ISOLYSER LTS-PLUS



1. Product and company identification

Trade name of product : ISOLYSER LTS-PLUS

Product use : disinfectant

Product dilution information : Not applicable

Supplier's information : Ecolab Inc.
370 N. Wabasha Street
St. Paul, MN 55102

Code : 913522

Date of issue : 31-August-2010

EPA Registration No. : 1677-229

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 : Powder.

Emergency overview : DANGER !

CAUSES DIGESTIVE TRACT AND EYE BURNS.
CAUSES SKIN IRRITATION.
HARMFUL IF ABSORBED THROUGH SKIN,
SWALLOWED OR INHALED.
OXIDIZER.
CONTACT WITH OTHER MATERIAL MAY CAUSE
FIRE.

Do not ingest. Do not get in eyes. Avoid contact with
skin and clothing. Keep only in the original container.
Avoid contact with combustible materials. Avoid all
possible sources of ignition (spark or flame). Keep
away from heat and direct sunlight. Decomposes on
heating. Wash thoroughly after handling.

Product AT USE DILUTION

Product is sold ready to use.

Potential acute health effects

Product AS SOLD

Eyes : Corrosive to eyes.

Skin : Irritating to skin.

Inhalation : Slightly irritating to the respiratory system.

Ingestion : Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Product AT USE DILUTION

Product is sold ready to use.

3. Composition/information on ingredients

Product AS SOLD

Name

troclosene sodium, dihydrate

CAS number

51580-86-0

% by weight

10.2

Product AT USE DILUTION

Name

Product is sold ready to use.

CAS number

% by weight

3. Composition/information on ingredients

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.	Product is sold ready to use.
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.	
Inhalation	: 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.	

5. Fire-fighting measures

Product AS SOLD

Hazardous thermal decomposition products

- : Decomposition products may include the following materials:
- carbon dioxide
 - carbon monoxide
 - nitrogen oxides
 - halogenated compounds
 - metal oxide/oxides

Fire-fighting media and instructions

- : Use an extinguishing agent suitable for the surrounding fire.

Use water spray to keep fire-exposed containers cool. Dike area of fire to prevent runoff.

Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion.

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	: 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.	Product is sold ready to use.
Environmental precautions	: Avoid contact of spilled material and runoff with soil and surface waterways.	
Methods for cleaning up	: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.	

7. Handling and storage

Handling	Product AS SOLD
	: Do not ingest. Do not get in eyes. Do not breathe dust. Avoid contact with skin and clothing. Avoid contact with combustible materials. Keep only in the original container. Wash thoroughly after handling.
Storage	Product AS SOLD
	: Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed. Store in a closed container. Keep container tightly closed. Separate from reducing agents and combustible materials. Do not store above the following temperature: 35°C

Product AT USE DILUTION
Product is sold ready to use.

8. Exposure controls/personal protection

Engineering measures	Product AS SOLD
	: 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	: No protective equipment is needed under normal use conditions.
Respiratory	: No special protection is required.

Product AT USE DILUTION
Product is sold ready to use.

Product is sold ready to use.

Ingredient	Exposure limits
chlorine	ACGIH TLV (United States, 1/2009). STEL: 2.9 mg/m ³ 15 minute(s). STEL: 1 ppm 15 minute(s). TWA: 1.5 mg/m ³ 8 hour(s). TWA: 0.5 ppm 8 hour(s). OSHA PEL (United States, 11/2006). CEIL: 3 mg/m ³ CEIL: 1 ppm

9. Physical and chemical properties

Physical state	Product AS SOLD
	: Powder.
	Flash point : > 100°C
	Color : Off-white.
	Odor : chlorine
	pH : 6 to 7 [Conc. (% w/w): 1%]
Solubility	: Insoluble in the following materials: cold water and hot water.

Product AT USE DILUTION
Product is sold ready to use.

10. Stability and reactivity

Product AS SOLD

- Stability** : The product is stable. Decomposes on heating. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Reactivity** : Extremely reactive or incompatible with the following materials: acids.
Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas.
- Hazardous decomposition products** : Oxygen
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Potential acute health effects

- Product AS SOLD**
- Eyes** : Corrosive to eyes.
- Skin** : Irritating to skin.
- Inhalation** : Slightly irritating to the respiratory system.
- Ingestion** : Causes burns to mouth, throat and stomach.

Product AT USE DILUTION

Product is sold ready to use.

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.
- RCRA classification** : Unused product is D001 (Ignitable)

Product AT USE DILUTION

Product is sold ready to use.

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

IMO/IMDG Classification : Not regulated.

See shipping documents for specific transportation information.

15. Regulatory information

- Product AS SOLD**
- HCS Classification** : Oxidizing material
Corrosive material

Product AT USE DILUTION

Product is sold ready to use.

Product AS SOLD

U.S. Federal regulations

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

EPA Registration No. : 1677-229

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

15. Regulatory information

SARA 313**Product name****CAS number****Concentration**Form R - Reporting
requirements

: No listed substance

California Prop. 65

: No listed substance

16. Other information

Product AS SOLDHazardous Material
Information System (U.S.A.) :

Health	3
Flammability	0
Physical hazards	1

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

Date of issue : 31-August-2010
Date of previous issue : 31 August 2010
Responsible name : Regulatory Affairs
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.