

Material Safety Data Sheet

TRI-STAR FLEXYLITE



TRI-STAR FLEXYLITE

11 May 2010

1. Product and company identification

Trade name of product : TRI-STAR FLEXYLITE
 Product use : Laundry detergent

Product dilution information : 0.14 to 0.24%
 8 - 12 fluid ounces/50 gallons

Supplier's information : Ecolab Inc. Institutional Division
 370 N. Wabasha Street
 St. Paul, MN 55102
 1-800-352-5326

Code : 905222-02
 Date of issue : 11-May-2010

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 : slurry
 Emergency overview : CAUTION!
 MAY CAUSE EYE AND SKIN IRRITATION.
 MAY CAUSE ALLERGIC SKIN REACTION.
 Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Product AT USE DILUTION
 Liquid.
 CAUTION!
 No specific hazard.
 No specific hazard.

Potential acute health effects

Product AS SOLD
 Eyes : Moderately irritating to eyes.
 Skin : Moderately irritating to the skin. May cause sensitization by skin contact.
 Inhalation : No known significant effects or critical hazards.
 Ingestion : May be harmful if swallowed.

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.

See toxicological information (section 11)

3. Composition/information on ingredients

Product AS SOLD

Name	CAS number	% by weight
TETRASODIUM EDTA	64-02-8	5 - 20
alcohols, c12-14-secondary, ethoxylated	84133-50-6	1 - 5
TRIETHANOLAMINE	102-71-6	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl)-.omega.-hydroxy-.c12-13-alkyl ethers	70750-17-3	1 - 5

Product AT USE DILUTION

3. Composition/information on ingredients

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Do not induce vomiting. 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 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. No specific fire or explosion hazard.
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	: Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts 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	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

7. Handling and storage

	Product AS SOLD	Product AT USE DILUTION
Handling	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.	Wash thoroughly after handling.
Storage	: Keep out of reach of children. Store in a closed container. Store between the following temperatures: 0 and 50°C	Keep out of reach of children.

8. Exposure controls/personal protection

Product AS SOLD
Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protection
Eyes : Safety eyewear should be used when there is a likelihood of exposure.
Hands : Use chemical-resistant, impervious gloves.
Skin : Wear suitable protective clothing.
Respiratory : No special protection is required.

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.

Ingredient	Exposure limits
TRIETHANOLAMINE	ACGIH TLV (United States, 1/2009). TWA: 5 mg/m ³ 8 hour(s).

9. Physical and chemical properties

Product AS SOLD
Physical state : slurry
Flash point : > 100°C
 Product does not support combustion.
Color : Red.
Odor : Fragrance-like.
pH : 12.7 to 13.5 [Conc. (% w/w): 100%]
Boiling/condensation point : >100°C (>212°F)
Relative density : 1.08 to 1.14
Viscosity : Dynamic: 325 mPa·s (325 cP)
Dispersibility properties : Easily dispersible in the following materials: hot water.
 Dispersible in the following materials: cold water.
Solubility : Easily soluble in the following materials: hot water.
 Soluble in the following materials: cold water.

Product AT USE DILUTION
 Liquid.
 > 100°C
 Pale color.
 Faint odor.
 8.7 to 10

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 : Reactive or incompatible with the following materials: acids.
 Slightly reactive or incompatible with the following materials: organic materials and metals.
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.

11. Toxicological information

Potential acute health effects
Product AS SOLD
Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin. May cause sensitization by skin contact.
Inhalation : No known significant effects or critical hazards.
Ingestion : May be harmful if swallowed.

Product AT USE DILUTION
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
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 No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity : Not reported

13. Disposal considerations

Product AS SOLD
Waste disposal : Diluted product can be flushed to sanitary sewer.
 Discard empty container in trash.
RCRA classification : Unused product is D002 (Corrosive)

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
IMO/IMDG Classification : Not regulated.
 See shipping documents for specific transportation information.

Product AT USE DILUTION
 Not intended for transport.

15. Regulatory information

Product AS SOLD
HCS Classification : Irritating material
 Sensitizing material

Product AT USE DILUTION
 Not regulated.

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	CAS number	Concentration
Form R - Reporting requirements			
California Prop. 65			

16. Other information

Product AS SOLD

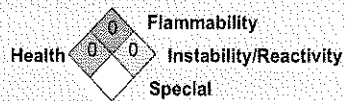
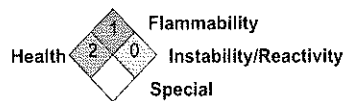
Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	0
Physical Hazards	0

Product AT USE DILUTION

Health	0
Flammability	0
Physical Hazards	0

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



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 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.