



ALFONIC® TDA-8.5 Ethoxylate

# Material Safety Data Sheet

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>Trade name</b>	ALFONIC® TDA-8.5 Ethoxylate		
<b>Synonyms</b>	Ethoxylated Alcohol		
<b>Manufacturer/Supplier</b>	Sasol North America Inc.		
<b>Address</b>	900 Threadneedle, Houston, TX 77079		
<b>Telephone</b>	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424-9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494-5142
	MSDS and Product Information (8:00am-4:30pm CST)		(281) 588-3491
	Health and Safety Information (8:00am-4:00pm CST)		(281) 588-3492

## SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight %</u>
Isotridecanol, ethoxylated	9043-30-5	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

## SECTION 3 HAZARDS IDENTIFICATION

### Emergency Overview

<b>Appearance</b>	hazy to white semi-solid
<b>Odour</b>	mild
<b>Precautions</b>	<b>WARNING! CAUSES EYE IRRITATION.</b> Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Toxic to aquatic life. Biodegradable. Not expected to present a hazard to downstream aquatic life (fish, invertebrates and phytoplankton).

### Potential Health Effects

<b>Eyes</b>	Irritating to eyes. May cause corneal inflammation.
<b>Skin</b>	May cause skin irritation and/or dermatitis. High standards of skin care and personal hygiene should be exercised at all times.



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**Inhalation** Irritating to respiratory system.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Additional advice** This product contains residual levels of alcohols which, even under normal handling conditions, may smell and irritate the eyes, nose, and throats of some individuals.

(See Section 11 for Toxicological Information)

## SECTION 4 FIRST AID MEASURES

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

**Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE-FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**Flash point** ca. > 230 °C > 446 °F

**Autoignition temperature** approximately 355 °C 671 °F

**Flammable limits in air % by volume** **Lower explosion limit:** no data available  
**Upper explosion limit:** no data available

**Fire and explosion** NFPA Class IIIB combustible liquid.

**Extinguishing media** Water spray or fog, foam, dry chemical, CO<sub>2</sub>.

**Fire fighting instructions** Wear self contained breathing apparatus for fire fighting if necessary.

**Further information** Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.



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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case of spill or leak** Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

**SECTION 7 HANDLING AND STORAGE**

**Safe handling advice** Take precautionary measures against static discharges.

**Storage/Transport pressure** Ambient

**Load/Unload temperature** 21 - 65 °C  
70 - 150 °F

**Storage and handling materials** Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting of carbon steel. If product is moisture free, uncoated carbon steel tanks.

**Further information on storage conditions** When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40 F dew point.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels.

**PERSONAL PROTECTIVE EQUIPMENT**

**Eyes** Chemical resistant goggles must be worn.

**Skin** Full protective clothing, chemical boots, and chemical gloves.

**Inhalation** Use NIOSH approved respiratory protection.



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### EXPOSURE GUIDELINES

Components	Exposure limit(s)
Ethylene Oxide	OSHA PEL 1 ppm 1.8 mg/m <sup>3</sup>
	OSHA EL 5 ppm 9 mg/m <sup>3</sup>
	ACGIH TLV (8-hour) 1 ppm 1.8 mg/m <sup>3</sup>

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product. The ethylene oxide in this product is not expected to result in significant exposures or present a health hazard.

PEL= Permissible Exposure Limits  
 TLV= Threshold Limit Value  
 EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
 STEL= Short Term Exposure Limit (15 min.)  
 WEEL= Workplace Environmental Exposure Level

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	semi-solid
Colour	hazy to white
Odour	mild
Form	liquid, semi-solid
Boiling point/range	no data available
Vapour pressure	< 1 mm Hg @ 20 °C
Solubility (water)	completely miscible
Viscosity	30.6 cSt @ 40 °C
Melting point/range	ca. 24 °C 75 °F
Density	0.984 g/cm <sup>3</sup> @ 48 °C

## SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid	Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air or oxygen increases reaction rate. For example, after storing at 95 F/35 C for 30 days in the presence of air, there is measureable oxidation of the ethoxylate. Lower temperatures will allow for longer storage time and higher temperatures will shorten the storage time if stored under an air or oxygen atmosphere.
Hazardous decomposition products	When storing this product in air or oxygen, decomposition may occur, generating vapors which could be irritating. Ensure adequate ventilation, especially in confined areas. Oxidation is not expected when stored under a nitrogen atmosphere.



## ALFONIC® TDA-8.5 Ethoxylate

**Incompatibility with other materials** Can react with strong oxidizers, inorganic acids, and halogens:

**Hazardous polymerization** None.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Additional Remarks** Some or all of the information provided below is from studies conducted on a similar product or products.

**Eyes** Primary irritation (rabbit): 20 - 43.9 (Maximum score is 110.)

**Skin** Primary irritation (rabbit): 4 hours 1 (Maximum score is 8.0.)

**Inhalation** no data available

**Ingestion** Acute oral LD50 (rat): > 1,000 mg/kg

### CARCINOGENICITY

Ethylene Oxide

**NTP** Known to be a human carcinogen.  
**OSHA** Carcinogen and reproductive hazard.  
**IARC** Carcinogenic to humans.

## SECTION 12 ECOLOGICAL INFORMATION

**Aquatic toxicity** Toxic to aquatic life.

LC50 (Brachydanio rerio) 96 hours: 5.8 mg/l EC 92/69

LC0 (Brachydanio rerio) 96 hours: 5 mg/l EC 92/69

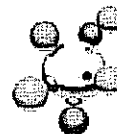
EC50 (Daphnia) 48 hours: 2.5 mg/l EC 92/69

EC50 (Pseudomonas putida (bacteria)) 5 hours: > 1,900 mg/l Oxygen Consumption Test

EC50 (S. subspicatus (algae)) 72 hours: 7.2 mg/l Cell Multiplication Inhibition Test

NOEC (S. subspicatus (algae)) 72 hours: 2.4 mg/l Cell Multiplication Inhibition Test

**Biodegradation** Biodegradable. Not expected to present a hazard to downstream aquatic life (fish, invertebrates and phytoplankton).



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**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Code** Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

**Disposal methods** Dispose of only in accordance with local, state, and federal regulations.

**Empty containers.** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

**SECTION 14 TRANSPORT INFORMATION**

**DOT** UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6) ethoxylate), 9, III, Marine pollutant  
This product is regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than 119 gallons per package) only.

**IATA** This product is not regulated as a dangerous good when shipped by air in quantities less than 119 gallons per package.

**IMDG** UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6) ethoxylate), 9, III, Marine pollutant  
This product is regulated as a Marine Pollutant when shipped by water in all quantities according to the IMDG Code.

**SECTION 15 REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS**

**OSHA classification**  
Eye irritant

**TSCA Inventory Listing**  
**Components**

**CAS-No.**

Poly(oxy-1,2-ethanediyl), a-isotridecyl-w-hydroxy-

9043-30-5



## ALFONIC® TDA-8.5 Ethoxylate

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**SARA 302 Status**  
**Components**

**CAS-No.**

**Weight %**

Contains no chemicals subject to SARA 302 reporting.

**SARA 311/312 Classification**  
"Immediate (acute) health hazard"

**SARA 313 Chemical**  
**Components**

**CAS-No.**

**Weight %**

Contains no chemicals subject to SARA 313 reporting.

**CERCLA Hazardous Substance**  
**Components**

**CERCLA RQ**

**Weight %**

Contains no chemicals subject to CERCLA.

### **INTERNATIONAL REGULATIONS**

**Workplace Hazardous Materials Information System (WHMIS) Classification**  
Class D, Division 2, Subdivision B: Toxic material.

**Australian Inventory of Chemical Substances (AICS) Listing**  
Listed on the AICS.

**Japanese Minister of International Trade and Industry (MITI) Inventory Listing**  
Listed on MITI.

**Canadian Domestic Substance List (DSL) Inventory Listing**  
Listed on the DSL.

**European Inventory of Existing Commercial Chemical Substances (EINECS) Listing**  
Listed on EINECS.

**Philippines Inventory List (PICCS)**  
Listed on PICCS.

**Korean Inventory List**  
Listed on the ECL.

**China Inventory List**  
Listed on the China inventory.



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**STATE REGULATIONS**

**California Safe Drinking Water Act (Prop 65) Listing  
Components**

**CAS-No.**

Ethylene Oxide

75-21-8

Sasol North America Inc. ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

**SECTION 16 OTHER INFORMATION**

**HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	<u>Reactivity</u>
HMIS	2	1	0
NFPA	1	1	0

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