

## NOVEL® TDA-5 Ethoxylate

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Trade name</b>	NOVEL® TDA-5 Ethoxylate	
<b>Synonyms</b>	Ethoxylated Alcohol, Trideceth-5	
<b>Use</b>	Cosmetic additive, Industrial use, Surfactant	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	12120 Wickchester Lane 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
	SDS and Product Information (8:00am-4:30pm CST)	(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)	(281) 588-3492
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com	

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS</b>	Serious eye damage	Category 1
<b>Hazards</b>	Chronic aquatic toxicity	Category 3

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

**Prevention** P280 Wear eye protection/ face protection.  
P273 Avoid release to the environment.

**Response** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

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**Disposal** P501 Dispose of contents/ container to an approved waste disposal plant.

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

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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

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

### SECTION 4 FIRST AID MEASURES

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**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 FIREFIGHTING MEASURES

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#### FLAMMABLE PROPERTIES

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

**Suitable extinguishing media** Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Protective equipment and precautions for firefighters** Wear self-contained breathing apparatus for firefighting 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.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Methods and materials for containment and cleaning up** 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.

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**SECTION 7 HANDLING AND STORAGE**

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

**Storage/Transport pressure** Ambient

**Load/Unload temperature** 15 - 38 °C  
60 - 100 °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** Mix thoroughly before use. 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°C (-40°F) dew point.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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** Wear as appropriate: Goggles, Face-shield

**Skin** Full protective clothing, chemical boots, and chemical gloves. High standards of skin care and personal hygiene should be exercised at all times.

**Inhalation** Use respirator when performing operations involving potential exposure to vapour of the product. Use NIOSH approved respiratory protection.

**EXPOSURE GUIDELINES**

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.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b>	liquid;
<b>Colour</b>	Clear to slightly hazy
<b>Form</b>	liquid
<b>Odour</b>	sweet
<b>Odour Threshold</b>	No data available
<b>Flash point</b>	> 152 °C, > 305 °F;
<b>Flammability</b>	Upper explosion limit: No data available Lower explosion limit: No data available
<b>Boiling point/boiling range</b>	approximately > 253 °C, > 487 °F;
<b>Melting point/range</b>	-11 °C, 12.2 °F;
<b>Auto-ignition temperature</b>	approximately 355 °C, 671 °F;
<b>Decomposition temperature</b>	No data available;
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	< 1 mm Hg @ 20 °C, 68 °F;
<b>Vapour density</b>	14.5
<b>Density</b>	0.967 g/cm <sup>3</sup> @ 20 °C, 68 °F; ASTM D-4052;
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	partly miscible
<b>Viscosity</b>	23.01 cSt @ 40 °C, 104 °F;
<b>pH</b>	6 - 8
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available

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**SECTION 10 STABILITY AND REACTIVITY**


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<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	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.
<b>Hazardous decomposition products</b>	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.
<b>Materials to avoid</b>	Can react with strong oxidizers, inorganic acids, and halogens.
<b>Hazardous polymerisation</b>	None.

**SECTION 11 TOXICOLOGICAL INFORMATION**


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<b>Additional Remarks</b>	Information given is based on data obtained from similar substances.
<b>Acute dermal toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	LC50 value expected to exceed the saturated vapor concentration in air.
<b>Acute oral toxicity</b>	LD50 Rat: > 10,000 mg/kg Test substance: MARLIPAL O13/60 & MARLIPAL O13/90
<b>Skin corrosion/irritation</b>	Primary irritation (Rabbit): 4 hours; 4.1 - 4.6 (Max. score is 8.0.) Test substance: MARLIPAL O13/60 & MARLIPAL O13/90
<b>Serious eye damage/eye irritation</b>	Primary irritation (Rabbit): 35.6 - 42.1 (Max. score is 110.) Test substance: MARLIPAL O13/60 & MARLIPAL O13/90
<b>Respiratory or skin sensitisation</b>	No data available
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> No data available  <b>Genotoxicity in vivo:</b>

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No data available

**Assessment Mutagenicity:**

No data available

**Reproductive toxicity** **Reproductive toxicity:**

No data available

**Assessment Reproductive toxicity:**

No data available

**Teratogenicity:**

No data available

**Assessment teratogenicity:**

No data available

**STOT - single exposure** No data available

**STOT - repeated exposure** No data available

**Aspiration toxicity** No data available

**Carcinogenicity** **Assessment carcinogenicity:**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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**SECTION 12 ECOLOGICAL INFORMATION**


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**Aquatic toxicity** Harmful to aquatic life with long lasting effects.

**Toxicity to fish** LC50 (Danio rerio (zebra fish)) 96 hours: 5.8 mg/l; OECD Test Guideline 203  
Test substance: C13-6 Ethoxylate

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 48 hours: 2.5 mg/l; OECD Test Guideline 202  
Test substance: C13-6 Ethoxylate

**Toxicity to algae** ErC50 (Desmodesmus subspicatus (green algae)) 72 hours: 8.2 mg/l; OECD Test Guideline 201  
Test substance: C13-6 Ethoxylate

**Chronic toxicity to fish** No data available

**Chronic toxicity to** NOEC (Daphnia magna (Water flea)) 21 d: 0.37 mg/l

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**aquatic invertebrates** (literature value)

**Biodegradation** Readily biodegradable.

OECD Test Guideline 301F (28 d): > 60 %  
(10 day window met)

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects** No data available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**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.

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**SECTION 14 TRANSPORT INFORMATION**

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**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 only in bulk quantities (greater than 119 gallons per package).

**IATA** not regulated

**IMDG** not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Remarks** No data available

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### SECTION 15 REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

##### TSCA Inventory Listing

###### Components

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

###### CAS-No.

9043-30-5

##### SARA 302 Status

###### Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

###### CAS-No.

###### Weight percent

##### SARA 311/312 Classification

"Immediate (acute) health hazard"

##### SARA 313 Chemical

###### Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

###### CAS-No.

###### Weight percent

##### US. EPA CERCLA Hazardous Substances (40 CFR 302)

###### Components

none

###### Reportable Quantity

###### Weight percent

#### INTERNATIONAL REGULATIONS

##### WHMIS Classification

Serious eye damage

Category 1

Chronic aquatic toxicity

Category 3

##### European Union

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Classification according to Regulation (EU) 1272/2008.

Serious eye damage, Category 1

Chronic aquatic toxicity, Category 3

Classified according to the CESIO recommendation.

##### Australia. Inventory of Chemical Substances (AICS)

Listed

##### Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

##### Japan. ISHL - Inventory of Chemical Substances

Listed



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Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico	Not listed
New Zealand. Inventory of Chemical Substances	Listed
Switzerland	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

### STATE REGULATIONS

#### California Prop. 65

Components  
Ethylene Oxide

CAS-No.  
75-21-8

Sasol Chemicals (USA) LLC's 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

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### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
<b>HMIS®</b>	3	1	0
<b>NFPA</b>	3	1	0

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