

## NOVELFROTH® 190 Ethoxylate

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

<b>Trade name</b>	NOVELFROTH® 190 Ethoxylate	
<b>Synonyms</b>	Ethoxylated Alcohol	
<b>Use</b>	Emulsifier, Surfactant, Industrial use	
<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>	Flammable liquids	Category 4
<b>Hazards</b>	Serious eye damage	Category 1

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H227 Combustible liquid.  
H318 Causes serious eye damage.

##### Precautionary statements

**Prevention** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P280 Wear eye protection/ face protection.

**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.

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P310 Immediately call a POISON CENTER/doctor.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**Storage** P403 + P235 Store in a well-ventilated place. Keep cool.

**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.

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Poly(oxy-1,2-ethanediyl), $\alpha$ -hexyl- $\omega$ -hydroxy-	31726-34-8	100

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

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**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.

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**SECTION 5 FIREFIGHTING MEASURES**

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**FLAMMABLE PROPERTIES**

**Fire/explosion** NFPA Class IIIA 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.

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**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** Remove all sources of ignition. Evacuate personnel to safe areas. 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).

**Spill precautions** Do not flush into surface water or sanitary sewer system.

**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** -12 - 38 C  
10 - 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.

**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.

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**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.

**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 pungent
<b>Odour Threshold</b>	No data available
<b>Flash point</b>	79 °C, 174 °F;
<b>Flammability</b>	Upper explosion limit: > 1.6 %(V) Lower explosion limit: 0.2 %(V)
<b>Boiling point/boiling range</b>	166 °C, 331 °F;
<b>Melting point/range</b>	Pour point: -39 °C, -38 °F;
<b>Auto-ignition temperature</b>	275 °C, 527 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	0.16 psi @ 25 °C, 77 °F;
<b>Vapour density</b>	ca. 7 - 9
<b>Density</b>	No data available
<b>Specific gravity</b>	0.93 @24 °C, 75 °F;

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<b>Water solubility</b>	soluble
<b>Viscosity</b>	5.32 cSt @ 40 °C, 104 °F;
<b>pH</b>	No data available
<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.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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<b>Acute dermal toxicity</b>	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 402
<b>Acute inhalation toxicity</b>	LC50 value expected to exceed the saturated vapor concentration in air.
<b>Acute oral toxicity</b>	LD50 Rat: > 5,000 mg/kg Test substance: C610-3.5 Ethoxylate; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
<b>Skin corrosion/irritation</b>	(Rabbit) Test substance: C610-3.5 Ethoxylate slightly irritating, The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

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<b>Serious eye damage/eye irritation</b>	Primary irritation (Rabbit): 58 (Max. score is 110.) Test substance: C610-3.5 Ethoxylate Irreversible effects on the eye, The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
<b>Respiratory or skin sensitisation</b>	not expected based on structure and functional groups
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> not expected based on structure and functional groups  <b>Genotoxicity in vivo:</b> No data available  <b>Assessment Mutagenicity:</b> No data available
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> No data available  <b>Assessment Reproductive toxicity:</b> No data available  <b>Teratogenicity:</b> No data available  <b>Assessment teratogenicity:</b> No data available
<b>STOT - single exposure</b>	The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Aspiration toxicity</b>	Not applicable
<b>Carcinogenicity</b>	<b>Assessment carcinogenicity:</b> 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.

**SECTION 12 ECOLOGICAL INFORMATION**


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**Toxicity to fish** LC50 (Pimephales promelas (fathead minnow)) 96 hours: 97 mg/l  
Test substance: 1-Hexanol

**Toxicity to aquatic** LC50 (Daphnia magna (Water flea)) 24 hours: 200 mg/l

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<b>invertebrates</b>	Test substance: 1-Hexanol
<b>Toxicity to algae</b>	No data available
<b>Chronic toxicity to fish</b>	No data available
<b>Chronic toxicity to aquatic invertebrates</b>	No data available
<b>Biodegradation</b>	Readily biodegradable.  OECD Test Guideline 301B (28 d): 89 % Test substance: NOVEL® 6-2 Ethoxylate
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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<b>Waste Code</b>	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.
<b>Disposal methods</b>	Dispose of only in accordance with local, state, and federal regulations.
<b>Empty containers.</b>	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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<b>DOT</b>	NA 1993, Combustible liquid, n.o.s.(hexanol), Combustible liquid., III This product is regulated as a hazardous material according to the Department of Transportation only in bulk quantities (greater than 119 gallons per package).
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**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**


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**U.S. FEDERAL REGULATIONS**
**TSCA Inventory Listing**
**Components**

Poly(oxy-1,2-ethanediyl),  $\alpha$ -hexyl- $\omega$ -hydroxy-

**CAS-No.**

31726-34-8

**SARA 302 Status**
**Components**
**CAS-No.**
**Weight percent**

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

**SARA 311/312 Classification**

"Immediate (acute) health hazard", "Fire hazard"

**SARA 313 Chemical**
**Components**
**CAS-No.**
**Weight percent**

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.

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**
**Components**

none

**Reportable Quantity**
**Weight percent**
**INTERNATIONAL REGULATIONS**
**WHMIS Classification**

Flammable liquids

Category 4

Serious eye damage

Category 1

**European Union**

Classification according to Regulation (EU) 1272/2008.

Serious eye damage, Category 1

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

Listed

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

Listed



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Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Not 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	2	0
<b>NFPA</b>	3	2	0

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