

## NOVEL 1012-5 Ethoxylate

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

<b>Trade name</b>	NOVEL 1012-5 Ethoxylate	
<b>Synonyms</b>	Ethoxylated Alcohol	
<b>Use</b>	Industrial & Institutional cleaning	
<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>	Acute toxicity (Dermal)	Category 4
<b>Hazards</b>	Serious eye damage	Category 1

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

**Hazard statements** H312 Harmful in contact with skin.  
H318 Causes serious eye damage.

##### Precautionary statements

**Prevention** P280 Wear protective gloves/ protective clothing/ 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.  
P310 Immediately call a POISON CENTER/doctor.

**NOVEL 1012-5 Ethoxylate**

---

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P362 Take off contaminated clothing and wash before reuse.

**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**

---

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Alcohols, C10-16, ethoxylated	68002-97-1	100

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

---

**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 FIREFIGHTING MEASURES**

---

**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.

**NOVEL 1012-5 Ethoxylate**

---

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

---

**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.

**SECTION 7 HANDLING AND STORAGE**

---

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

**Storage/Transport pressure** Ambient

**Load/Unload temperature** 16 - 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.

**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** 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.

**NOVEL 1012-5 Ethoxylate**

---

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

---

<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>	> 204 °C, > 400 °F; PM;
<b>Flammability</b>	Upper explosion limit: ca. 1.1 %(V) Lower explosion limit: ca. 0.2 %(V)
<b>Boiling point/boiling range</b>	181 - 338 °C, 358 - 640 °F;
<b>Melting point/range</b>	1.6 °C, 35 °F;
<b>Auto-ignition temperature</b>	354 °C, 670 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	13.2
<b>Density</b>	0.973 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	soluble
<b>Viscosity</b>	36.3 cSt @ 20 °C, 68 °F;
<b>pH</b>	6 - 8
<b>Evaporation rate</b>	No data available

**NOVEL 1012-5 Ethoxylate**

---

**Partition coefficient: n-octanol/water** No data available

**Volatile organic compounds (VOC) content** 3.7 %

---

**SECTION 10 STABILITY AND REACTIVITY**

---

**Reactivity** Stable at normal ambient temperature and pressure.

**Chemical stability** No decomposition if stored and applied as directed.

**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.

**Materials to avoid** Can react with strong oxidizers, inorganic acids, and halogens.

**Hazardous polymerisation** None.

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

---

**Additional Remarks** Information given is based on data obtained from similar substances.

**Acute dermal toxicity** LD50 Rabbit: 1,000 mg/kg

**Acute inhalation toxicity** LC50 value expected to exceed the saturated vapor concentration in air.

**Acute oral toxicity** LD50 Rat: > 3.3 g/kg

**Skin corrosion/irritation** Primary irritation (Rabbit): 24 hours; 1.5 (Max. score is 8.0.)

**Serious eye damage/eye irritation** (Rabbit)  
Causes serious eye damage., May cause irreversible eye damage., Category approach, own test results/literature values

## NOVEL 1012-5 Ethoxylate

---

**Respiratory or skin sensitisation** No data available

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
No data available

**Genotoxicity in vivo:**  
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.

---

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity to fish** LC50 (Pimephales promelas (fathead minnow)) 48 hours: 4.6 mg/l

**Toxicity to aquatic invertebrates** LC50 (Daphnia magna (Water flea)) 48 hours: 2.4 mg/l  
Test substance: ALFONIC 1012-5 Ethoxylate

**Toxicity to algae** EbC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: 2.8 mg/l  
Test substance: ALFONIC 1012-5 Ethoxylate

**Chronic toxicity to fish** No data available

**NOVEL 1012-5 Ethoxylate**

---

<b>Chronic toxicity to aquatic invertebrates</b>	No data available
<b>Biodegradation</b>	Readily biodegradable.  OECD Test Guideline 301B (28 d): 83 % Test substance: MARLIPAL 1012-6  Simulated Activated Sludge Test 100 % Test substance: ALFONIC 1012-5 Ethoxylate
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available

---

**SECTION 13 DISPOSAL CONSIDERATIONS**

---

<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.

---

**SECTION 14 TRANSPORT INFORMATION**

---

<b>DOT</b>	not regulated
<b>IATA</b>	not regulated
<b>IMDG</b>	not regulated

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

## NOVEL 1012-5 Ethoxylate

---

Remarks No data available

### SECTION 15 REGULATORY INFORMATION

---

#### U.S. FEDERAL REGULATIONS

##### TSCA Inventory Listing

###### Components

Alcohols, C10-16, ethoxylated

###### CAS-No.

68002-97-1

All chemical substances in this product are either on the TSCA Inventory, or in compliance with the inventory.

##### 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

Acute toxicity, Serious eye damage

##### 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

###### Reportable Quantity

###### Weight percent

none

#### INTERNATIONAL REGULATIONS

##### WHMIS Classification

Acute toxicity (Dermal)

Category 4

Serious eye damage

Category 1

##### 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.

Acute toxicity (Dermal), Category 4

Eye irritation, Category 1

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

Listed

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

Listed



## NOVEL 1012-5 Ethoxylate

---

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)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	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

---

### 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

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES



**NOVEL 1012-5 Ethoxylate**

---

NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.

---