

ALFONIC® 1618-6 Ethoxylate

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

Trade name	ALFONIC® 1618-6 Ethoxylate	
Synonyms	Ethoxylated Alcohol	
Use	Industrial use, Surfactant, Textile	
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
Address	12120 Wickchester Lane Houston TX 77079	
Telephone	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 (7:30am-4:00pm CST)	(281) 588-3492
E-mail address	SasolElectronicSDS@us.sasol.com	

SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

Acute toxicity (Oral)	Category 3
Eye irritation	Category 2B
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 3

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H301 Toxic if swallowed.
 H320 Causes eye irritation.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.

ALFONIC® 1618-6 Ethoxylate

Response P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P330 Rinse mouth.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P391 Collect spillage.

Storage P405 Store locked up.

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, C16-C18, ethoxylated	68439-49-6	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 (CO₂)

Protective equipment and precautions for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

ALFONIC® 1618-6 Ethoxylate

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

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 59 - 61 °C
138 - 142 °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°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

ALFONIC® 1618-6 Ethoxylate

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

Appearance	solid; Colorless liquid when melted.;
Colour	white
Form	solid
Odour	sweet pungent
Odour Threshold	no data available
Flash point	ca. 224 °C, 435 °F; COC;
Flammability	Upper explosion limit: ca. 0.8 %(V) Lower explosion limit: ca. 0.1 %(V)
Boiling point/boiling range	> 112 °C, 234 °F;
Melting point/range	26 - 29 °C, 79 - 84 °F;
Auto-ignition temperature	ca. 368 °C, 694 °F;
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapour pressure	ca. 0.1 psi @ 38 °C, 100 °F;
Vapour density	ca. 15 - 17
Density	0.945 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	no data available
Water solubility	negligible
Viscosity	17 cSt @ 40 °C, 104 °F;
pH	no data available
Evaporation rate	no data available

ALFONIC® 1618-6 Ethoxylate

Partition coefficient: n-octanol/water no data available

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 no data available

Acute inhalation toxicity LC50 rabbit (4 hours)
LC50 value expected to exceed the saturated vapor concentration in air.

Acute oral toxicity LD50 rat: > 50 - 300 mg/kg
Category approach

Skin corrosion/irritation Primary irritation (rabbit): 4 hours; 2.2 (Max. score is 8.0.)
Not irritating

Eye damage/irritation Primary irritation (rabbit): 8.0 (Max. score is 110.)

Respiratory or skin sensitization no data available

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

Genotoxicity in vivo:
no data available

ALFONIC® 1618-6 Ethoxylate

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

Aquatic toxicity Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.**Toxicity to fish** LC50 (Fish) 96 hours: > 0.1 - 1 mg/l
Category approach**Toxicity to aquatic invertebrates** EC50: > 0.1 - 1 mg/l
Category approach**Toxicity to algae** EC10 (Green algae) 72 hours: > 0.1 - 1 mg/l
Category approach**Chronic toxicity to fish** no data available**Chronic toxicity to aquatic invertebrates** NOEC 21 d: > 0.1 - 1 mg/l
Category approach**Biodegradation** Expected to be biodegradable.**Bioaccumulation** no data available**Mobility in soil** no data available

ALFONIC® 1618-6 Ethoxylate

Other adverse effects no data available

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 only in bulk quantities (greater than 119 gallons per package).
- IATA** UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6) ethoxylate), 9, III
- 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.

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

Remarks no data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Eye irritant

TSCA Inventory Listing
Components

CAS-No.

ALFONIC® 1618-6 Ethoxylate

Alcohols, C16-C18, ethoxylated

68439-49-6

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

SARA 302: 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"

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

SARA 313: 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**

Class D, Division 1, Subdivision B: Toxic material

Class D, Division 2, Subdivision B: Toxic material.

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 (Oral), Category 3

Eye irritation, Category 2

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 3

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed

ALFONIC® 1618-6 Ethoxylate

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 Chemicals (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 ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 6.0 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>
HMIS®	2	1	0
NFPA	2	1	0

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