

ALFONIC® 610-3.5 Ethoxylate

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

Trade name	ALFONIC® 610-3.5 Ethoxylate		
Synonyms	Ethoxylated Alcohol		
Use	Industrial & Institutional cleaning, Industrial use, Mining, Oilfield, Personal care		
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
	SDS 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

OSHA/GHS Hazards	Acute toxicity (Dermal)	Category 4
	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.

ALFONIC® 610-3.5 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, C6-C12, ethoxylated	68439-45-2	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 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.

ALFONIC® 610-3.5 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 4 - 38 °C
40 - 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.

ALFONIC® 610-3.5 Ethoxylate

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	Clear, colorless
Form	liquid
Odour	sweet pungent
Odour Threshold	No data available
Flash point	114 °C, 237.2 °F; PM;
Flammability	Upper explosion limit: approximately 0.9 %(V) Lower explosion limit: approximately 0.1 %(V)
Boiling point/boiling range	192 °C, 377 °F;
Melting point/range	-19 - -13.5 °C, 10 - 18 °F;
Auto-ignition temperature	275 °C, 527 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	8.1 mm Hg @ 38 °C, 100 °F;
Vapour density	8 - 10
Density	0.953 g/cm ³ @ 22 °C, 72 °F;
Specific gravity	No data available
Water solubility	approximately 2 g/l
Viscosity	12 cSt @ 38 °C, 100 °F;
pH	No data available
Evaporation rate	No data available

ALFONIC® 610-3.5 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 this and similar substances.
- Acute dermal toxicity** LD50 Rabbit: 1,500 - 1,900 mg/kg
Test substance: ALFONIC® 610-3.5 Ethoxylate
- Acute inhalation toxicity** LC50 Rat (1 hours): > 3.2 mg/l
LC50 Rat (4 hours): > 8.02 mg/l
- Acute oral toxicity** LD50 Rat: > 2,000 mg/kg
Test substance: ALFONIC® 610-3.5 Ethoxylate
- Skin corrosion/irritation** Primary irritation (Rabbit): 4 hours; 0.2 - 1.1 (Max. score is 8.0.)
Test substance: ALFONIC® 610-1.5 and 610-5.5 Ethoxylate
Not irritating
- Serious eye damage/eye irritation** Primary irritation (Rabbit): 58 (Max. score is 110.)
Test substance: ALFONIC® 610-3.5 Ethoxylate

ALFONIC® 610-3.5 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 No data available

Toxicity to aquatic invertebrates LC50 (Daphnia magna (Water flea)) 48 hours: 9.2 mg/l
Test substance: ALFONIC® 610-3.5 Ethoxylate

Toxicity to algae No data available

Chronic toxicity to fish No data available

ALFONIC® 610-3.5 Ethoxylate

Chronic toxicity to aquatic invertebrates	No data available
Biodegradation	Readily biodegradable. OECD Test Guideline 301E (28 d): 96 % Test substance: ALFONIC® 610-3.5 Ethoxylate
Bioaccumulative potential	No data available
Mobility in soil	No data available
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	not regulated
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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ALFONIC® 610-3.5 Ethoxylate

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA Inventory Listing
Components

Alcohols, C6-C12, ethoxylated

CAS-No.

68439-45-2

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

Glycol Ether (C7 or less; 1,2,3 mole)

CAS-No.

Not applicable

Weight percent

2 %

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

none

Reportable Quantity
Weight percent
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.

Serious eye damage, Category 1

Acute toxicity (Dermal), Category 4

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

Canada. Domestic Substances List (DSL) Inventory

Listed

ALFONIC® 610-3.5 Ethoxylate

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	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

HAZARD RATINGS

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

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ALFONIC® 610-3.5 Ethoxylate

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