

ALFOL 18 Alcohol

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

Trade name ALFOL 18 Alcohol
Synonyms 1-Octadecanol, Stearyl Alcohol
Use Industrial use, Oilfield, Personal care, Pharmaceutical
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 Combustible dust

LABEL ELEMENTS

Hazard symbols None

Signal word Warning

Hazard statements May form combustible dust concentrations in air (during processing)

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 Ensure all equipment is electrically grounded before beginning transfer operations.
 Apply measures to prevent dust explosions.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1-Octadecanol	112-92-5	>90
1-Eicosanol	629-96-9	<1
1-Hexadecanol	36653-82-4	<1

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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. In case of shortness of breath, give oxygen. 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. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂).

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

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.

Spill precautions Material can create slippery conditions.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/Transport pressure Ambient

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Load/Unload temperature 10 - 40 °C
50 - 104 °F

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate:
Goggles. Face-shield.

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation No personal respiratory protective equipment normally required. Use respirator when performing operations involving potential exposure to vapour of the product. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour white

Form solid molten liquid

Odour sweet

Odour Threshold No data available

Flash point 194 - 196 °C, 379 - 385 °F; ASTM D 93;

Flammability Upper explosion limit: approximately 5.0 %(V)

Lower explosion limit: approximately 0.4 %(V)

Boiling point/boiling range 350 - 354 °C, 662 - 670 °F;

Melting point/range 47 - 58 °C, 117 - 136 °F;

Auto-ignition temperature 249 - 269 °C, 480 - 516 °F;

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Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	< 0.01 mm Hg @ 22 °C, 72 °F;
Vapour density	9.3
Density	0.811 g/cm ³ @ 22 °C, 72 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	13.5 cSt @ 70 °C, 158 °F;
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 7.19;

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	Keep away from heat and sources of ignition.
Hazardous decomposition products	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
Materials to avoid	Can react with strong oxidizers, inorganic acids, and halogens.
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	Rabbit: > 5,000 mg/kg Test substance: 1-Tetradecanol The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Based on available data, the classification criteria are not met.
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Symptoms: Erythema Emaciation Weakness

Acute inhalation toxicity No data available

Acute oral toxicity LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 (literature value)
Based on available data, the classification criteria are not met.

Skin corrosion/irritation (Rabbit): OECD Test Guideline 404
Not irritating (literature value)
Based on available data, the classification criteria are not met.

(Human)
Not irritating

Serious eye damage/eye irritation (Rabbit): OECD Test Guideline 405
Not irritating (literature value)
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Guinea pig: not sensitizing; Maximisation Test (literature value)
Based on available data, the classification criteria are not met.

Germ cell mutagenicity **Genotoxicity in vitro:**
In vitro tests did not show mutagenic effects (literature value)
Category approach

Genotoxicity in vivo:
In vivo tests did not show mutagenic effects

Assessment Mutagenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity **Reproductive toxicity:**
Rat; Oral; 55-day; OECD Test Guideline 422
No toxicity to reproduction (literature value)
Assessment Reproductive toxicity:
Based on available data, the classification criteria are not met.

Teratogenicity:
Rat; Oral; OECD Test Guideline 422
Did not show teratogenic effects in animal experiments (literature value)

Assessment teratogenicity:

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Based on available data, the classification criteria are not met.

STOT - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure Rat; Oral; 90-day; NOAEL: 4,400 mg/kg
 Test substance: 1-Hexadecanol
 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
 The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity Not applicable

Carcinogenicity **Assessment carcinogenicity:**
 Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours; semi-static test
 In the range of water solubility not toxic under test conditions.
 (literature value)

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 48 hours
 In the range of water solubility not toxic under test conditions.

Toxicity to algae ErL50 (Desmodesmus subspicatus (green algae)) 96 hours; OECD Test Guideline 201
 In the range of water solubility not toxic under test conditions.
 (literature value)

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates NOEC (Daphnia magna (Water flea)) 21 d
 In the range of water solubility not toxic under test conditions.
 (literature value)

Biodegradation Readily biodegradable.
 OECD Test Guideline 301B (28 d): > 60 %
 (literature value)

Bioaccumulative potential No data available

Mobility in soil No data available

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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 in solid form; however, if shipped in molten form above 100 °C, use the following description: UN3257, Elevated temperature liquid, n.o.s. (Octadecanol), 9, PG III

IATA Not regulated in solid form; however, if product is in molten form and above 100 °C then it is forbidden for air transportation.

IMDG Not regulated in solid form; however, if shipped in molten form above 100 °C, use the following description: UN3257, Elevated temperature liquid, n.o.s. (Octadecanol), 9, PG III

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

TSCA Inventory Listing

Components

1-Octadecanol
1-Eicosanol
1-Hexadecanol

CAS-No.

112-92-5
629-96-9
36653-82-4

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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

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

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

Combustible dust

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

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
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



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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

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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