

**ALFOL 1618CG Alcohol (Flaked)**

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

Trade name	ALFOL 1618CG Alcohol (Flaked)		
Synonyms	Linear Primary Alcohol Blend		
Use	Detergent, Industrial use, Lubricants, Paper Chemical, 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)	+1 (800) 424 9300	
	CHEMTREC World Wide	+1 (703) 527-3887	
	Other Emergencies (24-hr)	+1 (337) 494 5142	
	SDS and Product Information (8:00am-4:30pm CST)	+1 (281) 588 3491	
	Health and Safety Information (7:30am-4:00pm CST)	+1 (281) 588 3492	
E-mail address	ProdSafe.Shared@sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS	Chronic aquatic toxicity	Category 3
Hazards	Combustible dust	

LABEL ELEMENTS

Hazard symbols None

Signal word Warning

Hazard statements May form combustible dust concentrations in air (during processing)
H412 Harmful to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
Prevent dust accumulation.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octadecanol	112-92-5	60 - 70
1-Hexadecanol	36653-82-4	25 - 35
1-Tetradecanol	112-72-1	<2
1-Eicosanol	629-96-9	1 - 4

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 Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. ST class = 1. Severity of dust explosion is moderate. Dust may form explosive mixture in air. 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

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Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Remove all sources of ignition. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Non-sparking tools should be used. 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. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Storage/Transport temperature ≤ 26 °C
≤ 80 °F

Storage/Transport pressure Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate:
Goggles. Face-shield.

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

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

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Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid
Colour	white
Form	Pastilles nearly colorless liquid when melted.
Odour	sweet
Odour Threshold	No data available
Flash point	163 °C, 325 °F; ASTM D 93;
Flammability	Upper explosion limit: approximately 5.0 %(V) Lower explosion limit: approximately 0.4 %(V)
Boiling point/boiling range	286 - 339 C, 548 - 642 °F;
Melting point/range	45 - 53 °C, 113 - 127 °F;
Auto-ignition temperature	247 °C, 477 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.1976 mm Hg @ 126.85 °C, 260 °F;
Vapour density	8.3 - 9.3
Density	0.806 g/cm3 @ 70 °C, 158 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	10.67 cSt @ 60 °C, 140 °F;
pH	No data available
Evaporation rate	No data available

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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 Keep away from heat and sources of ignition.

Hazardous decomposition products None.

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

Hazardous polymerisation None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50 Rabbit: > 2,000 mg/kg; FHSA
Test substance: 1-Hexadecanol

Test substance: 1-Octadecanol
No data available

Acute inhalation toxicity LC0 Rat: > 1.5 mg/l; dust/mist
Test substance: 1-Hexadecanol
maximal attainable concentration
Information taken from reference works and the literature.
Based on available data, the classification criteria are not met.

Test substance: 1-Octadecanol
Negligible or unlikely exposure pathways

Acute oral toxicity LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401
Test substance: 1-Hexadecanol

LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401
Test substance: 1-Octadecanol

Skin corrosion/irritation Primary irritation (Rabbit): 24 hours; 1.5 (Max. score is 8.0.)
Test substance: 1-Hexadecanol
Not irritating

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Primary irritation (Rabbit): 1.5 (Max. score is 8.0.)

Test substance: 1-Octadecanol

Not irritating

**Serious eye
damage/eye irritation**

Primary irritation (Rabbit): 1 hours, 15.3 (Max. score is 110.);

OECD Test Guideline 405

Test substance: 1-Hexadecanol

Not irritating

Primary irritation (Rabbit): 5 (Max. score is 110.); Draize Test

Test substance: 1-Octadecanol

**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:

Contains no ingredient listed as a carcinogen

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SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Aquatic toxicity is unlikely due to low solubility.

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours; semi-static test
Test substance: 1-Hexadecanol
In the range of water solubility not toxic under test conditions.
(literature value)

LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours; semi-static test
Test substance: 1-Octadecanol
In the range of water solubility not toxic under test conditions.
(literature value)

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 48 hours
Test substance: 1-Hexadecanol
In the range of water solubility not toxic under test conditions.
(predicted value)

EC50 (Daphnia magna (Water flea)) 48 hours
Test substance: 1-Octadecanol
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
Test substance: 1-Hexadecanol
In the range of water solubility not toxic under test conditions.
(literature value)

ErL50 (Desmodesmus subspicatus (green algae)) 96 hours; OECD Test Guideline 201
Test substance: 1-Octadecanol
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
Test substance: 1-Hexadecanol
In the range of water solubility not toxic under test conditions.
(predicted value)

NOEC (Daphnia magna (Water flea)) 21 d:
Test substance: 1-Octadecanol
In the range of water solubility not toxic under test conditions.
(literature value)

Biodegradation Readily biodegradable.
OECD Test Guideline 301B (28 d): > 60 %
Test substance: 1-Hexadecanol

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(literature value)
OECD Test Guideline 301B (28 d): > 60 %
Test substance: 1-Octadecanol
(literature value)

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

SECTION 15 REGULATORY INFORMATION

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

1-Octadecanol

1-Hexadecanol

CAS-No.

112-92-5

36653-82-4

All chemical substances in this product are either on the TSCA Active 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

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**

none

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

Chronic aquatic toxicity

Category 3

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

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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
none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	2	0
NFPA	1	2	0

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