

ALFOL® 1620 Alcohol

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

Trade name	ALFOL® 1620 Alcohol	
Synonyms	Linear Primary Alcohol Mixture	
Use	Industrial use, 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
	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

Not a hazardous substance or mixture according to OSHA HCS 2012.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1-Hexadecanol	36653-82-4	46.6 - 52.6
1-Octadecanol	112-92-5	29.4 - 35.4
1-Eicosanol	629-96-9	12.5 - 16.5
1-Tetradecanol	112-72-1	<3
1-Docosanol	661-19-8	<1.7

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.

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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

Load/Unload temperature 60 - 71 °C
140 - 160 °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 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

Contains no substances with occupational exposure limit values.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid; Nearly colorless liquid when melted.;
Colour	white
Form	solid
Odour	sweet
Odour Threshold	no data available
Flash point	171 °C, 340 °F; ASTM D 93;
Flammability	Upper explosion limit: approximately 5.0 %(V) Lower explosion limit: approximately 0.4 %(V)
Boiling point/boiling range	332 - 354 °C, 630 - 670 °F;
Melting point/range	45 - 54 °C, 113 - 129 °F;
Auto-ignition temperature	277 °C, 530 °F;
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapour pressure	0.003 mm Hg @ 21 °C, 70 °F;
Vapour density	7.4
Density	no data available
Specific gravity	0.820 @49 °C, 120 °F;
Water solubility	insoluble
Viscosity	13.7 cSt @ 60 °C, 140 °F;
pH	no data available
Evaporation rate	no data available
Partition coefficient: n-octanol/water	no data available

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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 LD50 rabbit: > 10,000 mg/kg Test substance: 1-eicosanol
Acute inhalation toxicity	rat: > 3.2 mg/l; dust/mist; FHSA Test substance: 1-Hexadecanol; exposed for 8 hours/day for 10 days showed only hyperactivity., All rats survived at indicated concentration. Test substance: 1-Octadecanol; no data available rat (6 hours) Test substance: 1-eicosanol; Survived exposure to concentrated vapors.
Acute oral toxicity	LD50 male and female rat: > 8,000 mg/kg; FHSA Test substance: 1-Hexadecanol; Beagle dogs fed up to 3.0% 1-hexadecanol in the diet for 13 weeks exhibited no effect other than elevated liver enzyme (transaminase) levels. LD50 rat: > 8,000 mg/kg Test substance: 1-Octadecanol LD50 rat: > 10,000 mg/kg Test substance: 1-eicosanol
Skin corrosion/irritation	Primary irritation (rabbit): 24 hours; 1.5 (Max. score is 8.0.) Test substance: 1-Hexadecanol Not irritating Primary irritation (rabbit): 1.5 (Max. score is 8.0.)

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	Test substance: 1-Octadecanol Not irritating
	Primary irritation (rabbit): 0 (Max. score is 8.0.) Test substance: 1-eicosanol Not irritating
Eye damage/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
	Primary irritation (rabbit): 2 (Max. score is 110.) Test substance: 1-eicosanol Not irritating
Respiratory or skin sensitization	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.

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

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)

EC50 (algae) 72 hours
Test substance: 1-eicosanol
In the range of water solubility not toxic under test conditions., (literature value), Category approach

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)

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

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Biodegradation Readily biodegradable.

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

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

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

Bioaccumulation Test substance: 1-Hexadecanol
Does not bioaccumulate.

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

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Remarks no data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS**OSHA Hazards (HCS 1994)**

Non-hazardous substance

TSCA Inventory Listing**Components**

1-Hexadecanol
1-Octadecanol
1-Eicosanol
1-Tetradecanol
1-Docosanol

CAS-No.

36653-82-4
112-92-5
629-96-9
112-72-1
661-19-8

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

Non-hazardous substance

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**

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

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. Industrial Safety & Health Law (ISHL) Inventory

Listed

Canada. Domestic Substances List (DSL) Inventory

Listed

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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
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
 none

CAS-No.**SECTION 16 OTHER INFORMATION****HAZARD RATINGS**

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

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