

ALFOL® 810FD Alcohol

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

Trade name	ALFOL® 810FD Alcohol		
Synonyms	Linear Primary Alcohol Mixture		
Use	Industrial & Institutional cleaning, Industrial use, Lubricants, Oilfield, Paint and Coatings		
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	Flammable liquids	Category 4
	Eye irritation	Category 2A
	Skin irritation	Category 2
	Chronic aquatic toxicity	Category 3

LABEL ELEMENTS

Hazard symbols



Signal word Warning

Hazard statements

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

- P210 Keep away from open flames/hot surfaces. - No smoking.
- P280 Wear protective gloves/ eye protection/ face protection.

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P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.

Response P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 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.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.

Storage P403 + P235 Store in a well-ventilated place. Keep cool.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octanol	111-87-5	60 - 64
1-Decanol	112-30-1	40 - 44

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 May be ignited by open flame. NFPA Class IIIA combustible liquid.

Suitable Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)

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extinguishing media

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 10 - 54 °C
50 - 130 °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

Components	Exposure limit(s)
1-Octanol	AIHA WEEL (8-hour) 50 ppm 265 mg/m ³

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid;
Colour	colourless
Form	liquid
Odour	sweet pungent
Odour Threshold	No data available
Flash point	82 - 95 °C, 180 - 203 °F; ASTM D 93;
Flammability	Upper explosion limit: approximately 5.3 %(V) Lower explosion limit: approximately 0.8 %(V)
Boiling point/boiling range	204 - 238 °C, 400 - 460 °F;
Melting point/range	< -20 °C, < -4 °F;
Auto-ignition temperature	260 °C, 500 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.66 mm Hg @ 24 °C, 75 °F;
Vapour density	4.5 - 5.5
Density	0.822 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	No data available
Water solubility	insoluble
Viscosity	5.45 cSt @ 40 °C, 104 °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** 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

- Additional Remarks** The toxicological data has been taken from products of similar composition.
- Acute dermal toxicity** LD50 Rabbit: > 2,000 mg/kg
Test substance: 1-octanol
- LD50 Rabbit: 2,000 - 4,000 mg/kg
Test substance: 1-decanol
- Acute inhalation toxicity** Rat (4 hours): > 5.6 mg/l; dust/mist
Test substance: 1-octanol
- Rat (1 hours): > 71 mg/l; dust/mist
Test substance: 1-decanol; All rats survived at indicated concentration.
- Acute oral toxicity** LD50 Rat: > 5,000 mg/kg
Test substance: 1-octanol
- LD50 Rat: > 20,000 mg/kg
Test substance: 1-decanol
- Skin corrosion/irritation** Primary irritation (Rabbit): 5.3 (Max. score is 8.0.)
Test substance: 1-octanol
- Primary irritation (Rabbit): 5.1 (Max. score is 8.0.)

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Test substance: 1-decanol

Serious eye damage/eye irritation Primary irritation (Rabbit): 72 hours; 52.3 (Max. score is 110.)
 Test substance: 1-octanol
 Corneal damage remained at 72 hours, the last day of observation

Primary irritation (Rabbit): 72 hours; 46 (Max. score is 110.)
 Test substance: 1-decanol
 (unwashed eyes)

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 Harmful to aquatic life with long lasting effects.

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l; flow-through test

Test substance: 1-octanol
(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 1 - 10 mg/l; flow-through test

Test substance: 1-decanol
(literature value)

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 24 hours: > 1 - 10 mg/l; static test

Test substance: 1-octanol
(literature value)

LC50 (Nitocra spinipes) 96 hours: > 1 - 10 mg/l; static test

Test substance: 1-decanol
(literature value)

Toxicity to algae ErC50 (Desmodesmus subspicatus (green algae)) 48 hours: > 10 - 100 mg/l; OECD Test Guideline 201

Test substance: 1-octanol
(literature value)

EC50 (algae) 72 hours: > 1 - 10 mg/l

Test substance: 1-decanol
(literature value), Category approach

Chronic toxicity to fish EC10 (Pimephales promelas (fathead minnow)) 33 d: > 0.1 - 1 mg/l; flow-through test

Test substance: 1-decanol
(literature value)

Chronic toxicity to aquatic invertebrates NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l; semi-static test; OECD Test Guideline 211

Test substance: 1-octanol
(literature value)

NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l; semi-static test; OECD Test Guideline 211

Test substance: 1-decanol
(literature value)

Biodegradation Readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 %

Test substance: 1-octanol
(literature value)

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OECD Test Guideline 301B (28 d): > 60 %
Test substance: 1-decanol
(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 NA 1993, Combustible liquid, n.o.s.(Octanol), III
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 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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SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA Inventory Listing
Components

1-Octanol

1-Decanol

CAS-No.

111-87-5

112-30-1

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

"Immediate (acute) health hazard", "Fire hazard"

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

Flammable liquids	Category 4
Eye irritation	Category 2A
Skin irritation	Category 2
Chronic aquatic toxicity	Category 3

European Union

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2
 Skin irritation, Category 2
 Chronic aquatic toxicity, Category 3

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

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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
 none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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