

ALFOL 8 Alcohol

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

Trade name ALFOL 8 Alcohol
Synonyms 1-Octanol, n-Octanol
Use Flavors and Fragrances, Industrial & Institutional cleaning, Industrial use, Mining, Oilfield Drilling
Company Sasol Chemicals (USA) LLC
(an affiliate of Sasol Chemicals North America LLC)
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Telephone CHEMTREC North America Transportation Emergency (24-hr) (800) 424 9300
CHEMTREC World Wide (703) 527-3887
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SDS and Product Information (8:00am-4:30pm CST) (281) 588 3491
Health and Safety Information (7:30am-4:00pm CST) (281) 588 3492
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SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	Flammable liquids	Category 4
	Eye irritation	Category 2A
	Chronic aquatic toxicity	Category 3

LABEL ELEMENTS**Hazard symbols****Signal word** Warning

Hazard statements H227 Combustible liquid.
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.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

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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.

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	98.8 - 99.7

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.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion May be ignited by open flame.
NFPA Class IIIA 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.

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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** Ambient

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

<u>Components</u>	<u>Exposure limit(s)</u>
1-Octanol	AIHA WEEL (8-hour) 50 ppm 265 mg/m ³
1-Butanol	OSHA PEL (Permissible Exposure Limit) 100 ppm 300 mg/m ³ ACGIH TLV (8-hour) 20 ppm *Skin Hazard: Skin exposure should be prevented or reduced to control skin absorption.
Heptane	OSHA PEL (Permissible Exposure Limit) 500 ppm 2,000 mg/m ³ ACGIH TLV (8-hour) 400 ppm 1,640 mg/m ³ ACGIH STEL (Short Term Exposure Limit) 500 ppm 2,050 mg/m ³ NIOSH Ceiling 440 ppm 1,800 mg/m ³

PEL= Permissible Exposure Limits

TWA= Time Weighted Average (8 hr.)

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TLV= Threshold Limit Value
EL= Excursion Limit

STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	clear colourless
Form	liquid
Odour	sweet pungent
Odour Threshold	No data available
Flash point	81 - 87 °C, 178 - 189 °F;
Flammability	Upper explosion limit: 6.0 %(V) Lower explosion limit: 0.9 %(V)
Boiling point/boiling range	194 - 196 °C, 381 - 385 °F;
Melting point/range	-17 - -3 °C, 1.4 - 27 °F; Pour point
Auto-ignition temperature	274 °C, 525 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.04 mm Hg @ 21 °C, 70 °F;
Vapour density	4.5
Density	0.827 g/cm ³ @ 20 °C, 68 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	5.711 cSt @ 40 °C, 104 °F;
pH	No data available

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Evaporation rate No data available

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

Acute dermal toxicity LD50 Rabbit: > 2,000 mg/kg
Test substance: 1-octanol
Based on available data, the classification criteria are not met.
Target Organs: Skin; Symptoms: Swollen corrosion of the mucous membranes

Acute inhalation toxicity LC50 value expected to exceed the saturated vapor concentration in air.
Category approach

Acute oral toxicity LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401
Test substance: 1-octanol
(literature value)
Based on available data, the classification criteria are not met.

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

Serious eye damage/eye irritation (Rabbit): OECD Test Guideline 405
Causes eye irritation.
(literature value)

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Respiratory or skin sensitisation Guinea pig: not sensitizing; Draize Test (literature value)
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.

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

Genotoxicity in vivo:
Result: In vivo tests did not show mutagenic effects (literature value)
Category approach

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

Reproductive toxicity **Reproductive toxicity:**
Rat; Oral; 90-day;
NOAEL (parents): 1,127 mg/kg
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

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

Teratogenicity:
Rat; Oral; OECD Test Guideline 414
NOAEL (teratogen): 1,300 mg/kg (literature value)

Assessment teratogenicity:
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; 1127 mg/kg Oral; 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 Based on available data, the classification criteria are not met.

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 (literature value)
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 24 hours: > 10 - 100 mg/l; static test (literature value)
Toxicity to algae	ErC50 (Desmodesmus subspicatus (green algae)) 48 hours: > 10 - 100 mg/l; OECD Test Guideline 201 (literature value)
Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l; semi-static test; OECD Test Guideline 211 (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
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.

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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

SECTION 15 REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS****TSCA Inventory Listing****Components****CAS-No.**

1-Octanol

111-87-5

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**

1-Butanol

71-36-3

0 %

US. EPA CERCLA Hazardous Substances (40 CFR 302)**Components****Reportable Quantity****Weight percent**

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1-Butanol

5,000 LB

0 %

INTERNATIONAL REGULATIONS**WHMIS Classification**

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

European Union

Classification according to Regulation (EU) 1272/2008.

Eye 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
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)	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.**

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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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