ALFOL 10 Alcohol

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

Trade name	ALFOL 10 Alcohol	
Synonyms	1-Decanol, Decyl Alcohol	
Use	Agricultural, Industrial use, Personal care, Water treatment chemical	
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 Hazards	Eye irritation	Category 2A
	Acute aquatic toxicity	Category 2
	Chronic aquatic toxicity	Category 3

LABEL ELEMENTS

Hazard symbols



Signal word Warning

Hazard statements

H319 Causes serious eye irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
P273 Avoid release to the environment.

Response

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.
P391 Collect spillage.

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
1-Decanol	112-30-1	>=97

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

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

1-Hexanol ACGIH Time weighted average 20 ppm
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Time weighted average 100 ppm 300 mg/m3

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Colour colourless

Form liquid

Odour sweet pungent

ALFOL 10 Alcohol

Odour Threshold	No data available
Flash point	112 °C, 232 °F; ASTM D 93;
Flammability	Upper explosion limit: approximately 5.5 %(V)
	Lower explosion limit: approximately 0.7 %(V)
Boiling point/boiling range	231 - 234 °C, 448 - 453 °F;
Melting point/range	4.63 - 5.9 °C, 40 - 43 °F;
Auto-ignition temperature	265 °C, 510 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.02 mm Hg @ 21 °C, 70 °F;
Vapour density	4.5
Density	0.817 g/cm3 @ 40 °C, 104 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	14.5 cSt @ 21 °C, 70 °F;
pH	No data available
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: > 5,000 mg/kg; OPPTS 870.1200 (literature value) Based on available data, the classification criteria are not met. Target Organs: Skin; Symptoms: Local irritation
Acute inhalation toxicity	LC50 Rat (1 hours): > 71 mg/l; dust/mist (literature value) Based on available data, the classification criteria are not met. Target Organs: Lungs; Symptoms: Salivation Drowsiness Shortness of breath
Acute oral toxicity	LD50 Rat: > 5,000 mg/kg; OPPTS 870.1100 (literature value) Based on available data, the classification criteria are not met.
Skin corrosion/irritation	(Rabbit): OPPTS 870.2500 Moderate skin irritation (literature value) Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	(Rabbit): OPPTS 870.2400 irritating (literature value) Causes serious eye irritation.
Respiratory or skin sensitisation	Guinea pig: not sensitizing; Buehler Test (literature value) Based on available data, the classification criteria are not met. OPPTS 870.2600
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 (literature value) Category approach

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

Reproductive toxicity

Reproductive toxicity:
Rat; Oral;
Repeated dose toxicity studies gave no indication of adverse effects on reproductive organs
(literature value)
Category approach

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

Teratogenicity:
Rat; Oral; OECD Test Guideline 414
Test substance: 1-octanol
Did not show teratogenic effects in animal experiments.
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

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; Oral; OECD Test Guideline 422
NOAEL: 2,000 mg/kg
Test substance: 1-Dodecanol
(literature value)
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:
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ALFOL 10 Alcohol

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 1 - 10 mg/l; flow-through test; OECD Test Guideline 203
(literature value)

Toxicity to aquatic invertebrates
LC50 (Nitocra spinipes) 96 hours: > 1 - 10 mg/l; static test; OECD Test Guideline 202
(literature value)

Toxicity to algae
EC50 (algae) 72 hours: > 1 - 10 mg/l
(literature value)
Category approach

Chronic toxicity to fish
EC10 (Pimephales promelas (fathead minnow)) 33 d: 0.43 mg/l; flow-through test; OECD Test Guideline 210
(literature value)

Chronic toxicity to aquatic invertebrates
NOEC (Daphnia magna (Water flea)) 21 d: 0.11 mg/l; semi-static test; OECD Test Guideline 211
(literature value)

Toxicity to soil dwelling organisms
EC50 (Caenorhabditis elegans, Worm (Nematoda)) 72 hours: 98 mg/kg
(literature value)

Biodegradation
Readily biodegradable.
OECD Test Guideline 301D (30 d): > 60 %
(literature value)

Bioaccumulative potential
BCF: 20;
Bioaccumulation is unlikely.

Mobility in soil
Adsorption/Soil; Medium: Water; OECD Test Guideline 106
Koc: 1010 - 1433
Slightly mobile in soils

Other adverse effects
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

Ship type 2

Pollution category Y

Remarks MARPOL/IBC Code NAME: Decyl Alcohol (all isomers)

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components	CAS-No.
1-Decanol	112-30-1

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)

ALFOL 10 Alcohol

Components	Reportable Quantity	Weight percent
none		

INTERNATIONAL REGULATIONS

WHMIS Classification

Eye irritation	Category 2A
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 3

European Union

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2
Acute aquatic toxicity, 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	CAS-No.

none

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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

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