

## ALFOL® 12 Alcohol

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


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<b>Trade name</b>	ALFOL® 12 Alcohol		
<b>Synonyms</b>	1-Dodecanol		
<b>Use</b>	Flavors and Fragrances, Detergent, Industrial use, Personal care		
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
<b>Address</b>	12120 Wickchester Lane Houston TX 77079		
<b>Telephone</b>	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
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com		

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**SECTION 2 HAZARDS IDENTIFICATION**


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**GHS Hazards**

Eye irritation	Category 2B
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 2

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

**Hazard statements** H320 Causes eye irritation.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** P264 Wash skin thoroughly after handling.  
 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.

## ALFOL® 12 Alcohol

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P391 Collect spillage.

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

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Dodecanol	112-53-8	98
1-Tetradecanol	112-72-1	1.5
1-Decanol	112-30-1	0.5

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

### SECTION 4 FIRST AID MEASURES

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- 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

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#### FLAMMABLE PROPERTIES

**Fire/explosion** NFPA Class IIIB combustible liquid.

**Suitable extinguishing media** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**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. 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.

**ALFOL® 12 Alcohol**

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**Spill precautions** Material can create slippery conditions.

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**SECTION 7 HANDLING AND STORAGE**

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**Safe handling advice** Ensure all equipment is electrically grounded before beginning transfer operations.

**Storage/Transport pressure** Ambient

**Load/Unload temperature** 24 - 43 °C  
75 - 110 °F

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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**

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**Appearance** solid; colorless liquid when melted;

**Colour** white

**Form** Solid

**Odour** sweet pungent

**Odour Threshold** no data available

**Flash point** 129 °C, 265 °F; ASTM D 93;

**Flammability** Upper explosion limit: approximately 5.1 %(V)

Lower explosion limit: approximately 0.6 %(V)

**Boiling point/boiling range** 254 - 259 °C, 490 - 498 °F;

**ALFOL® 12 Alcohol**

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<b>Melting point/range</b>	23 °C, 74 °F;
<b>Auto-ignition temperature</b>	260 °C, 500 °F;
<b>Decomposition temperature</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Vapour pressure</b>	0.014 mm Hg @ 38 °C, 100 °F;
<b>Vapour density</b>	6.4
<b>Density</b>	0.830 g/cm <sup>3</sup> @ 15 °C, 60 °F;
<b>Specific gravity</b>	no data available
<b>Water solubility</b>	insoluble
<b>Viscosity</b>	12.3 cSt @ 38 °C, 100 °F;
<b>pH</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Keep away from heat and sources of ignition.
<b>Hazardous decomposition products</b>	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
<b>Materials to avoid</b>	Can react with strong oxidizers, inorganic acids, and halogens.
<b>Hazardous polymerisation</b>	None.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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<b>Acute dermal toxicity</b>	LD50 rabbit: 8,000 - 12,000 mg/kg
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## ALFOL® 12 Alcohol

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<b>Acute inhalation toxicity</b>	rat (1 hours): > 71 mg/l; dust/mist All rats survived at indicated concentration.
<b>Acute oral toxicity</b>	LD50 rat: > 20,000 mg/kg
<b>Skin corrosion/irritation</b>	Primary irritation (rabbit): 4.6 (Max. score is 8.0.)
<b>Eye damage/irritation</b>	Primary irritation (rabbit): 24 hours; 27 (Max. score is 110.) Corneal opacity was observed., Irritation not completely gone by day 3, the last day of observation.
<b>Respiratory or skin sensitization</b>	no data available
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> no data available  <b>Genotoxicity in vivo:</b> no data available  <b>Assessment Mutagenicity:</b> no data available
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> no data available  <b>Assessment Reproductive toxicity:</b> no data available  <b>Teratogenicity:</b> no data available  <b>Assessment teratogenicity:</b> no data available
<b>STOT - single exposure</b>	no data available
<b>STOT - repeated exposure</b>	rat; Oral; Reduction in white blood cell count. Based on available data, the classification criteria are not met.
<b>Aspiration toxicity</b>	no data available
<b>Carcinogenicity</b>	<b>Assessment carcinogenicity:</b> Contains no ingredient listed as a carcinogen

## SECTION 12 ECOLOGICAL INFORMATION

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**Aquatic toxicity** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**ALFOL® 12 Alcohol**

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<b>Toxicity to fish</b>	LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 1 - 10 mg/l; flow-through test (literature value)
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 48 hours: > 0.1 - 1 mg/l; static test (literature value)
<b>Toxicity to algae</b>	ErC50 (Desmodesmus subspicatus (green algae)) 72 hours: > 0.1 - 1 mg/l; OECD Test Guideline 201
<b>Chronic toxicity to fish</b>	no data available
<b>Chronic toxicity to aquatic invertebrates</b>	NOEC (Daphnia magna (Water flea)) 21 d: > 0.01 - 0.1 mg/l; semi-static test; OECD Test Guideline 211 (literature value)
<b>Biodegradation</b>	Readily biodegradable.  OECD Test Guideline 301B (28 d): > 60 % (literature value)
<b>Bioaccumulation</b>	no data available
<b>Mobility in soil</b>	no data available
<b>Other adverse effects</b>	no data available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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<b>Waste Code</b>	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.
<b>Disposal methods</b>	Dispose of only in accordance with local, state, and federal regulations.
<b>Empty containers.</b>	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.

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**SECTION 14 TRANSPORT INFORMATION**

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**ALFOL® 12 Alcohol**

**DOT** UN 3082, Environmentally hazardous substance, liquid, n.o.s.(1-Dodecanol), 9, 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** UN 3082, Environmentally hazardous substance, liquid, n.o.s.(1-Dodecanol), 9, III

**IMDG** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (1-Dodecanol), 9, III,  
Marine pollutant  
This product is regulated as a Marine Pollutant when shipped by water in all quantities according to the IMDG Code.

**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****OSHA Hazards (HCS 1994)**

Eye irritant

**TSCA Inventory Listing****Components**

1-Dodecanol  
1-Tetradecanol  
1-Decanol

**CAS-No.**

112-53-8  
112-72-1  
112-30-1

**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**

"Immediate (acute) health hazard"

**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**

Class D, Division 2, Subdivision B: Toxic material.

## ALFOL® 12 Alcohol

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### European Union

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 2

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
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)	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

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### HAZARD RATINGS

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



**ALFOL® 12 Alcohol**

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