

## ALFOL® 6 Alcohol

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


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**Trade name** ALFOL® 6 Alcohol

**Synonyms** 1-Hexanol, Hexyl Alcohol

**Use** Industrial & Institutional cleaning, Industrial use, Mining, Oilfield Drilling, Personal care, Pharmaceutical, Textile

**Distributor** Silver Fern Chemical, Inc.

**Address** 2226 Queen Anne Ave N., Seattle, WA 98109

**Customer Service** 866-282-3384

**Fax** 206-282-0105

**E-mail address** info@silverfernchemical.com

**Emergency phone number: INFO-TRAC +1-800-535-5053;**  
**Outside USA & Canada +1-352-323-3500**

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**SECTION 2 HAZARDS IDENTIFICATION**


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**GHS Hazards**

Flammable liquids	Category 3
Acute toxicity (Dermal)	Category 4
Eye irritation	Category 2B

**LABEL ELEMENTS****Hazard symbols**

**Signal word** Warning

**Hazard statements** H226 Flammable liquid and vapour.  
 H312 Harmful in contact with skin.  
 H320 Causes eye irritation.

**Precautionary statements**

**Prevention** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

**Response** P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P362 Take off contaminated clothing and wash before reuse.  
 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.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Hexanol	111-27-3	>=98

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** Flash back possible over considerable distance. NFPA Class II combustible liquid.

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

**Protective equipment and precautions for** Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

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firefighters

**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.

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

**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** Ambient

**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.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance** liquid;

**Colour** Clear, colorless

**Form** liquid

**Odour** sweet pungent

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<b>Odour Threshold</b>	no data available
<b>Flash point</b>	58 - 61 °C, 136 - 142 °F; TCC (ASTM D56);
<b>Flammability</b>	Upper explosion limit: approximately 8.0 %(V) Lower explosion limit: approximately 1.2 %(V)
<b>Boiling point/boiling range</b>	154 - 156 °C, 309 - 313 °F;
<b>Melting point/range</b>	-45 °C, -49 °F;
<b>Auto-ignition temperature</b>	290 - 313 °C, 554 - 595 °F;
<b>Decomposition temperature</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Vapour pressure</b>	0.5 mm Hg @ 21 °C, 70 °F;
<b>Vapour density</b>	4.5
<b>Density</b>	0.818 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Specific gravity</b>	no data available
<b>Water solubility</b>	0.59 g/100g insoluble (literature value)
<b>Viscosity</b>	6.561 cSt @ 20 °C, 68 °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.

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**Materials to avoid** Can react with strong oxidizers, inorganic acids, and halogens.

**Hazardous polymerisation** None.

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**SECTION 11 TOXICOLOGICAL INFORMATION**


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**Acute dermal toxicity** LD50 Rabbit: 1,500 - 2,000 mg/kg

**Acute inhalation toxicity** Rat (1 hours): > 21 mg/l; dust/mist  
All rats survived at indicated concentration.

**Acute oral toxicity** LD50 Rat: 3,210 mg/kg

**Skin corrosion/irritation** Primary irritation (Rabbit): 5.1 (Max. score is 8.0.)

**Eye damage/irritation** Primary irritation (Rabbit): 24 hours; 26.8 (Max. score is 110.) (unwashed eyes)  
  
Primary irritation (Rabbit): 24 hours; 32.6 (Max. score is 110.) (washed eyes), Irreversible corneal damage at day 3, the last day of observation.

**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

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**Aspiration toxicity** no data available

**Carcinogenicity** **Assessment carcinogenicity:**  
Contains no ingredient listed as a carcinogen

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**SECTION 12 ECOLOGICAL INFORMATION**

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**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: > 100 mg/l; static test  
(literature value)

**Toxicity to algae** ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 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: > 1 mg/l  
(predicted value)

**Biodegradation** Readily biodegradable  
  
OECD Test Guideline 301B (28 d): > 60 %  
(literature value)

**Bioaccumulation** no data available

**Mobility in soil** no data available

**Other adverse effects** no data available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Waste Code** D001 - Ignitability (RQ 100 LB). 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.

**Disposal methods** Land disposal of this product is restricted. Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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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.

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**SECTION 14 TRANSPORT INFORMATION**


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**DOT** UN 2282, Hexanols, 3, III

**IATA** UN 2282, Hexanols, 3, III

**IMDG** UN 2282, Hexanols, 3, III

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**


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

Combustible liquid., Eye irritation, Skin irritation

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

1-Hexanol

**CAS-No.**

111-27-3

**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**

"Fire hazard", "Immediate (acute) health 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

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### INTERNATIONAL REGULATIONS

#### WHMIS Classification

Class B, Division 3: Combustible liquid.  
Class D, Division 2, Subdivision B: Toxic material.

#### European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 3  
Eye irritation, Category 2  
Acute toxicity (Dermal), Category 4

<b>Australia. Inventory of Chemical Substances (AICS)</b>	Listed
<b>Japan. Inventory of Existing and New Chemical Substances (ENCS)</b>	Listed
<b>Japan. Industrial Safety &amp; Health Law (ISHL) Inventory</b>	Listed
<b>Canada. Domestic Substances List (DSL) Inventory</b>	Listed
<b>Canadian Non-Domestic Substance Listing (NDSL)</b>	Not listed
<b>European Inventory of Existing Commercial Chemical Substances (EINECS) Listing</b>	Listed
<b>Philippines. Inventory of Chemicals / Chemical Substances (PICCS)</b>	Listed
<b>Korea. Existing Chemicals Inventory (KECI)</b>	Listed
<b>China. Inventory of Existing Chemical Substances (IECSC)</b>	Listed
<b>Mexico. National Inventory of Chemical Substances (INSQ)</b>	Listed
<b>New Zealand. Inventory of Chemicals (NZIoC)</b>	Listed
<b>Switzerland. Inventory of Notified New Substances (CHINV)</b>	Listed
<b>Taiwan. National Existing Chemical Inventory (NECI)</b>	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



**ALFOL® 6 Alcohol**

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**HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
<b>HMIS®</b>	1	2	0
<b>NFPA</b>	1	2	0

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