

## ALFOL® 610 Alcohol

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

<b>Trade name</b>	ALFOL® 610 Alcohol	
<b>Synonyms</b>	Linear Primary Alcohol Mixture	
<b>Use</b>	Industrial use, Raw material for chemical processes	
<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
	SDS 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	

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS Hazards</b>	Flammable liquids	Category 4
	Acute toxicity (Dermal)	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.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

## ALFOL® 610 Alcohol

---

- Prevention** P210 Keep away from open flames/hot surfaces. - No smoking.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 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.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P362 Take off contaminated clothing and wash before reuse.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 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-Decanol	112-30-1	25 - 65
1-Octanol	111-87-5	20 - 65
1-Hexanol	111-27-3	2 - 50

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.

**ALFOL® 610 Alcohol**

---

**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 (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**

---

**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** 7 - 38 °C  
20 - 100 °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**

**ALFOL® 610 Alcohol**

---

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

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

---

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

---

**Appearance** liquid;

**Colour** colourless

**Form** liquid

**Odour** sweet pungent

**Odour Threshold** No data available

**Flash point** 79 - 82 °C, 174 - 180 °F; ASTM D 93;

**Flammability** Upper explosion limit: approximately 5.5 %(V)  
Lower explosion limit: approximately 0.9 %(V)

**Boiling point/boiling range** 177 - 237 °C, 351 - 459 °F;

**Melting point/range** -17 - -4 °C, 1 - 7 °F;

**Auto-ignition temperature** 262 - 277 °C, 504 - 531 °F;

**Decomposition temperature** No data available

**Flammability (solid, gas)** No data available

**Vapour pressure** < 0.2 mm Hg @ 38 °C, 100 °F;

**Vapour density** 4 - 5

**Density** 0.83 g/cm<sup>3</sup> @ 16 °C, 61 °F;

**Specific gravity** No data available

**Water solubility** insoluble

**ALFOL® 610 Alcohol**

---

<b>Viscosity</b>	6.4 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

---

**SECTION 10 STABILITY AND REACTIVITY**

---

<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.

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

---

<b>Additional Remarks</b>	Information given is based on data obtained from similar substances.
<b>Acute dermal toxicity</b>	LD50 Rabbit: 1,500 - 2,000 mg/kg Test substance: 1-Hexanol  LD50 Rabbit: > 2,000 mg/kg Test substance: 1-octanol  LD50 Rabbit: 2,000 - 4,000 mg/kg Test substance: 1-decanol
<b>Acute inhalation toxicity</b>	Rat (1 hours): > 21 mg/l; dust/mist Test substance: 1-Hexanol; All rats survived at indicated concentration.  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.

**ALFOL® 610 Alcohol**

---

<b>Acute oral toxicity</b>	LD50 Rat: 3,210 mg/kg Test substance: 1-Hexanol
	LD50 Rat: > 5,000 mg/kg Test substance: 1-octanol
	LD50 Rat: > 20,000 mg/kg Test substance: 1-decanol
<b>Skin corrosion/irritation</b>	Primary irritation (Rabbit): 5.1 (Max. score is 8.0.) Test substance: 1-Hexanol
	Primary irritation (Rabbit): 5.3 (Max. score is 8.0.) Test substance: 1-octanol
	Primary irritation (Rabbit): 5.1 (Max. score is 8.0.) Test substance: 1-decanol
<b>Serious eye damage/eye irritation</b>	Primary irritation (Rabbit): 24 hours; 26.8 (Max. score is 110.) Test substance: 1-Hexanol (unwashed eyes)
	Primary irritation (Rabbit): 24 hours; 32.6 (Max. score is 110.) Test substance: 1-Hexanol (washed eyes), Irreversible corneal damage at day 3, the last day of observation.
	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)
<b>Respiratory or skin sensitisation</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

**ALFOL® 610 Alcohol**


---

**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

---

**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-Hexanol  
(literature value)

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: > 100 mg/l; static test  
Test substance: 1-Hexanol  
(literature value)

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

**ALFOL® 610 Alcohol**

---

(literature value)

**Toxicity to algae** ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 10 - 100 mg/l; OECD Test Guideline 201  
Test substance: 1-Hexanol  
(literature value)

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: > 1 mg/l  
Test substance: 1-Hexanol  
(predicted value)

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-Hexanol  
(literature value)

OECD Test Guideline 301B (28 d): > 60 %  
Test substance: 1-octanol  
(literature value)

OECD Test Guideline 301B (28 d): > 60 %  
Test substance: 1-decanol  
(literature value)

**Bioaccumulative** No data available



**ALFOL® 610 Alcohol**

---

**potential****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.(hexanol, 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**  
1-Decanol

**CAS-No.**  
112-30-1

## ALFOL® 610 Alcohol

---

1-Octanol	111-87-5
1-Hexanol	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**

"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
Acute toxicity (Dermal)	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  
 Acute toxicity (Dermal), Category 4  
 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

**ALFOL® 610 Alcohol**


---

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>
<b>HMIS®</b>	2	2	0
<b>NFPA</b>	2	2	0

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.

---