SAFETY DATA SHEET

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; EPA Establishment #39496
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) (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
E-mail address  SasolElectronicSDS@us.sasol.com

SECTION 2  HAZARDS IDENTIFICATION

OSHA/GHS  Eye irritation  Category 2A
          Chronic aquatic toxicity  Category 3

LABEL ELEMENTS

Hazard symbols

Signal word  Warning

Hazard statements  H319  Causes serious eye irritation.
                   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.

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

SECTION 3  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Decanol</td>
<td>112-30-1</td>
<td>&gt;=97</td>
</tr>
</tbody>
</table>

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.
ALFOL® 10 Alcohol

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  15 - 54 °C

60 - 130 °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  Contains no substances with occupational exposure limit values.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Appearance  liquid;

Colour  colourless

Form  liquid

Odour  sweet pungent

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

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: 0.834 g/cm³ @ 22 °C, 72 °F;
Specific gravity: 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.
SAFETY DATA SHEET

ALFOL® 10 Alcohol

Hazardous polymerisation
None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks
Information given is based on data obtained from similar substances.

Acute dermal toxicity
LD50 Rabbit: 2,000 - 4,000 mg/kg

Acute inhalation toxicity
Rat (1 hours): > 71 mg/l; dust/mist
All rats survived at indicated concentration.

Acute oral toxicity
LD50 Rat: > 20,000 mg/kg

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

Serious eye damage/eye irritation
Primary irritation (Rabbit): 72 hours; 46 (Max. score is 110.)
(unwashed eyes)

Respiratory or skin sensitisation
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:
Test substance: 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
No data available
ALFOL® 10 Alcohol

exposure

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: > 1 - 10 mg/l; flow-through test (literature value)
Toxicity to aquatic invertebrates LC50 (Nitocra spinipes) 96 hours: > 1 - 10 mg/l; static test (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: > 0.1 - 1 mg/l; flow-through test (literature value)
Chronic toxicity to aquatic invertebrates NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l; semi-static test (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
ALFOL® 10 Alcohol

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

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

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

SARA 302 Status

Components
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
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.
SAFETY DATA SHEET

ALFOL® 10 Alcohol

US. EPA CERCLA Hazardous Substances (40 CFR 302)

<table>
<thead>
<tr>
<th>Components</th>
<th>Reportable Quantity</th>
<th>Weight percent</th>
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INTERNATIONAL REGULATIONS

WHMIS Classification

<table>
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<th>Category</th>
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<tr>
<td>Eye irritation</td>
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<tr>
<td>Category 2A</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
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<tr>
<td>Category 3</td>
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European Union

Classification according to Regulation (EU) 1272/2008.

<table>
<thead>
<tr>
<th>Category</th>
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</thead>
<tbody>
<tr>
<td>Eye irritation</td>
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<tr>
<td>Category 2</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
</tr>
<tr>
<td>Category 3</td>
</tr>
</tbody>
</table>

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  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

<table>
<thead>
<tr>
<th>HMIS®</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard/Instability</th>
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<tr>
<td></td>
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<tr>
<td>NFPA</td>
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