

## ALFOL® 14 Alcohol

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

|                       |  |                |
|-----------------------|--|----------------|
| <b>Trade name</b>     | ALFOL® 14 Alcohol  |                |
| <b>Synonyms</b>       | 1-Tetradecanol, Myristyl alcohol   |                |
| <b>Use</b>            | Industrial use, Oilfield, Paper Chemical, Personal care                          |                |
| <b>Company</b>        | Sasol Chemicals (USA) LLC<br>(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</b> | Eye irritation           | Category 2B |
| <b>Hazards</b>  | Chronic aquatic toxicity | Category 1  |

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Warning

**Hazard statements** H320 Causes eye irritation.  
H410 Very 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.  
P391 Collect spillage.

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**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-Tetradecanol    | 112-72-1       | 96 - 98.4             |
| 1-Dodecanol       | 112-53-8       | 0.9 - 2               |
| 1-Hexadecanol     | 36653-82-4     | 0.7 - 2               |

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 (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.

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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** 46 - 66 °C  
115 - 150 °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;

**Colour** white

**Form** solid

**Odour** sweet pungent

**Odour Threshold** No data available

**Flash point** 143 °C, 290 °F; ASTM D 93;

**Flammability** Upper explosion limit: approximately 3.5 %(V)

Lower explosion limit: approximately 0.5 %(V)

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|   |  |
|---|--|
| <b>Boiling point/boiling range</b>            | 297 - 301 °C, 567 - 573 °F;            |
| <b>Melting point/range</b>                    | 36.6 - 38.8 °C, 98 - 102 °F;           |
| <b>Auto-ignition temperature</b>              | 254 °C, 490 °F;                        |
| <b>Decomposition temperature</b>              | No data available                      |
| <b>Flammability (solid, gas)</b>              | No data available                      |
| <b>Vapour pressure</b>                        | 0.0015 mm Hg @ 38 °C, 100 °F;          |
| <b>Vapour density</b>                         | 7.4                                    |
| <b>Density</b>                                | 0.83 g/cm <sup>3</sup> @ 20 °C, 68 °F; |
| <b>Specific gravity</b>                       | No data available                      |
| <b>Water solubility</b>                       | insoluble                              |
| <b>Viscosity</b>                              | 15 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. Stable under normal conditions.                                   |
| <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 mg/kg   |
| <b>Acute inhalation toxicity</b>         | Rat (1 hours): > 1.5 mg/l; dust/mist<br>All rats survived at indicated concentration.  |
| <b>Acute oral toxicity</b>               | LD50 Rat: > 20,000 mg/kg; OECD Test Guideline 401<br>(literature value)  |
| <b>Skin corrosion/irritation</b>         | (human skin): OECD Test Guideline 404<br>Not irritating, (literature value)  |
| <b>Serious eye damage/eye irritation</b> | (Rabbit): OECD Test Guideline 405<br>Irritating.   |
| <b>Respiratory or skin sensitisation</b> | No data available  |
| <b>Germ cell mutagenicity</b>            | <b>Genotoxicity in vitro:</b><br>No data available<br><br><b>Genotoxicity in vivo:</b><br>No data available<br><br><b>Assessment Mutagenicity:</b><br>No data available  |
| <b>Reproductive toxicity</b>             | <b>Reproductive toxicity:</b><br>No data available<br><br><b>Assessment Reproductive toxicity:</b><br>No data available<br><br><b>Teratogenicity:</b><br>No data available<br><br><b>Assessment teratogenicity:</b><br>No data available |
| <b>STOT - single exposure</b>            | No data available  |
| <b>STOT - repeated exposure</b>          | No data available  |
| <b>Aspiration toxicity</b>               | No data available  |

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

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**SECTION 12 ECOLOGICAL INFORMATION**

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

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours; semi-static test  
Test substance: 1-Tetradecanol  
In the range of water solubility not toxic under test conditions., (literature value)

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 48 hours  
In the range of water solubility not toxic under test conditions., (literature value)

**Toxicity to algae** ErL50 (Desmodesmus subspicatus (green algae)) 96 hours; OECD Test Guideline 201  
In the range of water solubility not toxic under test conditions., (literature value)

**Chronic toxicity to fish** No data available

**Chronic toxicity to aquatic invertebrates** NOEC (Daphnia magna (Water flea)) 21 d: > 0.001 - 0.01 mg/l; semi-static test; OECD Test Guideline 211  
(literature value)

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

**Bioaccumulative potential** 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** 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.



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**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** UN 3077, Environmentally hazardous substance, solid, n.o.s.(Tetradecanol), 9, III , Marine pollutant  
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 3077, Environmentally hazardous substance, solid, n.o.s.(Tetradecanol), 9, III  
This product is regulated as a dangerous good when shipped by air in all quantities according to IATA.

**IMDG** UN 3077, Environmentally hazardous substance, solid, n.o.s., (Tetradecanol), 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

##### TSCA Inventory Listing

| <u>Components</u> | <u>CAS-No.</u> |
|-------------------|----------------|
| 1-Tetradecanol    | 112-72-1       |
| 1-Dodecanol       | 112-53-8       |
| 1-Hexadecanol     | 36653-82-4     |

##### SARA 302 Status

| <u>Components</u>   | <u>CAS-No.</u> | <u>Weight percent</u> |
|---|----------------|-----------------------|
| 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

| <u>CAS-No.</u> | <u>Weight percent</u> |
|----------------|-----------------------|
|----------------|-----------------------|

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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

none

#### Reportable Quantity

#### Weight percent

### INTERNATIONAL REGULATIONS

#### WHMIS Classification

|                          |             |
|--------------------------|-------------|
| Eye irritation           | Category 2B |
| Chronic aquatic toxicity | Category 1  |

#### European Union

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2  
Chronic aquatic toxicity, Category 1

|  |            |
|--|------------|
| <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>Canada. Non-Domestic Substance Listing (NDSL)</b>                     | Not 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.**



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**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/<br/>Instability</u> |
|--------------|---------------|---------------------|---|
| <b>HMIS®</b> | 1             | 1                   | 0                                       |
| <b>NFPA</b>  | 1             | 1                   | 0                                       |

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