

**ALFOL 1214GC Alcohol**

---

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

---

**Trade name** ALFOL 1214GC Alcohol  
**Synonyms** Linear Primary Alcohol Mixture  
**Use** Industrial & Institutional cleaning, Industrial use, Personal care  
**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** ProdSafe.Shared@sasol.com

---

**SECTION 2 HAZARDS IDENTIFICATION**

---

|                         |                          |             |
|-------------------------|--------------------------|-------------|
| <b>OSHA/GHS Hazards</b> | Eye irritation           | Category 2B |
|                         | Acute aquatic toxicity   | Category 1  |
|                         | Chronic aquatic toxicity | Category 1  |

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

**Signal word** Warning

**Hazard statements** H320 Causes eye irritation.  
H400 Very toxic to aquatic life.  
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.

**ALFOL 1214GC Alcohol**

---

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P391 Collect spillage.

**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-Dodecanol       | 112-53-8       | 66 - 76               |
| 1-Tetradecanol    | 112-72-1       | 22 - 32               |

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**

---

**ALFOL 1214GC Alcohol**

---

|                                                              |                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods and materials for containment and cleaning up</b> | 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. |
| <b>Spill precautions</b>                                     | Material can create slippery conditions.                                                                                                                                                                                                                                                                                                                    |

---

**SECTION 7 HANDLING AND STORAGE**

---

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>Safe handling advice</b>       | Ensure all equipment is electrically grounded before beginning transfer operations. |
| <b>Storage/Transport pressure</b> | Ambient                                                                             |

---

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

|                   |                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Wear as appropriate:<br>Goggles. Face-shield.                                                                                                                                           |
| <b>Skin</b>       | Wear suitable protective clothing, gloves and eye/face protection.                                                                                                                      |
| <b>Inhalation</b> | 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**

---

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Appearance</b>      | liquid                                 |
| <b>Colour</b>          | colourless                             |
| <b>Form</b>            | liquid                                 |
| <b>Odour</b>           | sweet pungent                          |
| <b>Odour Threshold</b> | No data available                      |
| <b>Flash point</b>     | 121 - 129 °C, 250 - 265 °F; ASTM D 93; |

**ALFOL 1214GC Alcohol**

---

|                                               |                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Flammability</b>                           | Upper explosion limit: approximately 5.1 %(V)<br>Lower explosion limit: approximately 0.5 %(V) |
| <b>Boiling point/boiling range</b>            | 253 - 292.2 °C, 488 - 558 °F;                                                                  |
| <b>Melting point/range</b>                    | 18.8 - 25 °C, 66 - 77 °F;                                                                      |
| <b>Auto-ignition temperature</b>              | 275 - 277 °C, 527 - 530 °F;                                                                    |
| <b>Decomposition temperature</b>              | No data available                                                                              |
| <b>Flammability (solid, gas)</b>              | No data available                                                                              |
| <b>Vapour pressure</b>                        | 5.4 - 12.5 mm Hg @ 167 °C, 332.6 °F;                                                           |
| <b>Vapour density</b>                         | 6 - 7                                                                                          |
| <b>Density</b>                                | 0.820 g/cm <sup>3</sup> @ 40 °C, 104 °F;                                                       |
| <b>Relative density</b>                       | No data available                                                                              |
| <b>Water solubility</b>                       | insoluble                                                                                      |
| <b>Viscosity</b>                              | 14.3 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                                                                              |

---

**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. |

**ALFOL 1214GC Alcohol**

---

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

**Hazardous polymerisation** None.

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

---

**Acute dermal toxicity** LD50 Rabbit: 8,000 - 12,000 mg/kg  
Test substance: 1-Dodecanol

LD50 Rabbit: 8,000 mg/kg  
Test substance: 1-Tetradecanol

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

Rat (1 hours): > 1.5 mg/l; dust/mist  
Test substance: 1-Tetradecanol

**Acute oral toxicity** LD50 Rat: > 20,000 mg/kg  
Test substance: 1-Dodecanol

LD50 Rat: > 20,000 mg/kg; OECD Test Guideline 401  
Test substance: 1-Tetradecanol  
(literature value)

**Skin corrosion/irritation** Primary irritation (Rabbit): 4.6 (Max. score is 8.0.)  
Test substance: 1-Dodecanol

(human skin): OECD Test Guideline 404  
Test substance: 1-Tetradecanol  
Not irritating  
(literature value)

**Serious eye damage/eye irritation** Primary irritation (Rabbit): 24 hours; 27 (Max. score is 110.)  
Test substance: 1-Dodecanol  
Corneal opacity was observed.  
Irritation not completely gone by day 3, the last day of observation.

(Rabbit): OECD Test Guideline 405  
Test substance: 1-Tetradecanol  
Irritating.

**Respiratory or skin sensitisation** No data available

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
No data available

**ALFOL 1214GC Alcohol**

---

**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**

Rat; Oral; Test substance: 1-Dodecanol

Reduction in white blood cell count.

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

No data available

**Carcinogenicity****Assessment carcinogenicity:**

Contains no ingredient listed as a carcinogen

---

**SECTION 12 ECOLOGICAL INFORMATION**

---

**Aquatic toxicity**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**Toxicity to fish**

LC50 (Pimephales promelas (fathead minnow)) 96 hours: &gt; 1 - 10 mg/l; flow-through test

Test substance: 1-Dodecanol

(literature value)

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: &gt; 0.1 - 1 mg/l; static test

Test substance: 1-Dodecanol

(literature value)

**ALFOL 1214GC Alcohol**

---

EC50 (Daphnia magna (Water flea)) 48 hours

Test substance: 1-Tetradecanol

In the range of water solubility not toxic under test conditions.  
(literature value)

**Toxicity to algae** ErC50 (Desmodesmus subspicatus (green algae)) 72 hours: > 0.1 - 1 mg/l; OECD Test Guideline 201

Test substance: 1-Dodecanol

ErL50 (Desmodesmus subspicatus (green algae)) 96 hours; OECD Test Guideline 201

Test substance: 1-Tetradecanol

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: > 0.01 - 0.1 mg/l; semi-static test; OECD Test Guideline 211

Test substance: 1-Dodecanol  
(literature value)

NOEC (Daphnia magna (Water flea)) 21 d: > 0.001 - 0.01 mg/l; semi-static test; OECD Test Guideline 211

Test substance: 1-Tetradecanol  
(literature value)

**Biodegradation** Readily biodegradable.  
OECD Test Guideline 301B (28 d): > 60 %  
Test substance: 1-Dodecanol  
(literature value)  
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

---

**SECTION 13 DISPOSAL CONSIDERATIONS**

---

**ALFOL 1214GC 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** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (1-Dodecanol, Tetradecanol), 9, III, Marine pollutant  
Not regulated in non-bulk packaging of 119 gallons or less or a net mass of 882 pounds or less per package.
- IATA** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (1-Dodecanol, Tetradecanol), 9, III  
Not regulated in non-bulk packaging of 5L or less or a net mass of 5kg or less per package.
- IMDG** UN 3082, Environmentally hazardous substance, liquid, n.o.s., (1-Dodecanol, 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****Components**

1-Dodecanol  
1-Tetradecanol

**CAS-No.**

112-53-8  
112-72-1

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the

**ALFOL 1214GC Alcohol**

---

inventory.

**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**

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

**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**

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

**European Union**

Classification according to Regulation (EU) 1272/2008.

Eye irritation, Category 2  
Acute aquatic toxicity, Category 1  
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. ISHL - Inventory of Chemical Substances</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     |

**ALFOL 1214GC Alcohol**

---

|                                                           |        |
|-----------------------------------------------------------|--------|
| Mexico. National Inventory of Chemical Substances (INSQ)  | Listed |
| New Zealand. Inventory of Chemical Substances (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**

---

**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                                       |

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.

---