

ISOFOL® 24 Alcohol

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

Trade name	ISOFOL® 24 Alcohol		
Synonyms	Branched Alcohol, Decyltetradecanol		
Use	Industrial use, Raw material for cosmetic agents, Raw material for textile auxiliary agents		
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
	MSDS 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

Not a hazardous substance or mixture according to OSHA HCS 2012.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Tetradecanol, 2-decyl-	58670-89-6	100

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.

ISOFOL® 24 Alcohol

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.

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 10 - 30°F above the melting point.

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;

ISOFOL® 24 Alcohol

Colour	colourless
Form	liquid
Odour	odourless
Odour Threshold	no data available
Flash point	approximately 230 °C, 446 °F; DIN 51758;
Flammability	Upper explosion limit: no data available Lower explosion limit: no data available
Boiling point/boiling range	ca. > 300 °C, > 572 °F;
Melting point/range	ca. 14 - 16 °C, 57 - 61 °F;
Auto-ignition temperature	ca. 305 °C, 581 °F;
Decomposition temperature	no data available
Flammability (solid, gas)	not applicable
Vapour pressure	< 0.1 hPa @ 20 °C, 68 °F;
Vapour density	no data available
Density	ca. 0.8 g/cm ³ @ 20 °C, 68 °F; DIN 51757;
Specific gravity	no data available
Water solubility	insoluble
Viscosity	no data available
Viscosity, dynamic	ca. 86 mPa.s @ 20 °C, 68 °F;
pH	no data available
Evaporation rate	no data available
Partition coefficient: n-octanol/water	log Pow: 10;
Volatile organic compounds (VOC) content	0.28 % (EPA Method 24);

ISOFOL® 24 Alcohol

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.
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 rabbit: > 2 mL/kg
Acute inhalation toxicity	Negligible or unlikely exposure pathways
Acute oral toxicity	LD50 rat: > 2,000 mg/kg; OECD Test Guideline 401
Skin corrosion/irritation	Primary irritation (rabbit): 0.25 (Max. score is 8.0.); OECD Test Guideline 404 slight irritation
Eye damage/irritation	Primary irritation (rabbit): 2.7 (Max. score is 110.); OECD Test Guideline 405 slight irritation
Respiratory or skin sensitization	guinea pig: not sensitizing; Maximisation Test
Germ cell mutagenicity	Genotoxicity in vitro: In vitro tests did not show mutagenic effects. Genotoxicity in vivo: In vivo tests did not show mutagenic effects Assessment Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity	Reproductive toxicity: no data available Assessment Reproductive toxicity: no data available Teratogenicity: rat; Oral; OECD Test Guideline 414

ISOFOL® 24 Alcohol

NOAEL (teratogen): 1,000 mg/kg

NOAEL (maternal): 1,000 mg/kg

Assessment teratogenicity:

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

STOT - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure rat; Oral;
NOAEL: 839.6 mg/kg
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity not applicable

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

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish (Leuciscus idus (Golden orfe)) 48 hours; static test; DIN 38412
In the range of water solubility not toxic under test conditions.

Toxicity to aquatic invertebrates (Daphnia magna (Water flea)) 48 hours; static test; OECD Test Guideline 202
In the range of water solubility not toxic under test conditions.

Toxicity to algae (Desmodesmus subspicatus (green algae)) 72 hours; static test; DIN 38412
In the range of water solubility not toxic under test conditions.

Chronic toxicity to fish no data available

Chronic toxicity to aquatic invertebrates no data available

Biodegradation rapidly biodegradable
OECD Test Guideline 301B (28 d): > 60 %

Bioaccumulation : BCF: 58.7;
(literature value)

Mobility in soil Adsorption/Soil; OECD Test Guideline 121
log K_{oc}: 8.92 - 9.79
immobile, The substance and its relevant degradation products decompose rapidly.

Other adverse effects no data available

ISOFOL® 24 Alcohol

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 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

OSHA Hazards (HCS 1994)
Non-hazardous substance

TSCA Inventory Listing
Components
1-Tetradecanol, 2-decyl-

CAS-No.
58670-89-6

SARA 302 Status
Components **CAS-No.** **Weight percent**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification
Non-hazardous substance

SARA 313 Chemical

ISOFOL® 24 Alcohol

Components**CAS-No.****Weight percent**

SARA 313: 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**

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Not listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemicals (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****CAS-No.**

ISOFOL® 24 Alcohol

none

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

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