



ISOFOL 20 Alcohol

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

Trade name	ISOFOL 20 Alcohol	
Synonyms	Branched C20 Alcohol, Octyldodecanol	
Use	Industrial use, Lubricant or lubricant additive, Raw material for cosmetic agents, Raw material for pharmaceuticals	
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

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-Dodecanol, 2-octyl-	5333-42-6	>=97

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.

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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.

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 Ambient

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.

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EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour	colourless
Form	liquid
Odour	characteristic
Odour Threshold	No data available
Flash point	> 170 °C, > 338 °F; DIN 51758;
Flammability	Upper explosion limit: No data available Lower explosion limit: No data available
Boiling point/boiling range	No data available
Melting point/range	approximately -4 - 1 °C, 25 - 33 °F;
Auto-ignition temperature	258 °C, 496 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	< 0.01 hPa @ 20 °C, 68 °F;
Vapour density	No data available
Density	approximately 0.8 g/cm ³ @ 20 °C, 68 °F; DIN 51757;
Relative density	No data available
Water solubility	insoluble
Viscosity	No data available
Viscosity, dynamic	ca. 60 mPa.s @ 20 °C, 68 °F;

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pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: > 8; @ 23 °C, 73 °F; OECD Test Guideline 117

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	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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 mg/kg mL/kg Based on available data, the classification criteria are not met.
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 5,000 mg/kg Based on available data, the classification criteria are not met.
Skin corrosion/irritation	(Rabbit) slight irritation Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	(Rabbit) slight irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Guinea pig: not sensitizing; Maximisation Test (literature value) Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Genotoxicity in vitro:

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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:

Rat;

NOAEL (parents): > 1,000 mg/kg

NOAEL (F1): > 1,000 mg/kg

Test substance: 1-docosanol

(literature value)

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Assessment Reproductive toxicity:

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

Teratogenicity:

Rat; Oral; 20-day; OECD Test Guideline 414

NOAEL (teratogen): 1,000 mg/kg

NOAEL (maternal): 1,000 mg/kg

Did not show teratogenic effects in animal experiments

Rabbit; Oral; 20-day; OECD Test Guideline 414

NOAEL (teratogen): > 2,000 mg/kg

NOAEL (maternal): > 2,000 mg/kg

Test substance: 1-docosanol

(literature value)

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

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 (literature value)

Aspiration toxicity

Not applicable

Carcinogenicity

Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

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SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity	Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.
Toxicity to fish	LC50 (Leuciscus idus (Golden orfe)) 48 hours: > 100 mg/l; static test; DIN 38412
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 48 hours; static test; OECD Test Guideline 202 In the range of water solubility not toxic under test conditions. Category approach
Toxicity to algae	ErC50 (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
Toxicity to bacteria	EC0 (activated sludge of a predominantly domestic sewage) 3 hours: > 1000 mg/l; Respiration inhibition; OECD Test Guideline 209
Biodegradation	Readily biodegradable. OECD Test Guideline 310 (28 d): > 60 % aerobic
Bioaccumulative potential	BCF: 53 - 539; calculated (literature value) Bioaccumulation is unlikely.
Mobility in soil	Medium: Adsorption/Soil/Sewage sludge; OECD Test Guideline 121 log Koc: 8.92 - 9.79 immobile strong adsorption to soil The substance and its relevant degradation products decompose rapidly.
Other adverse effects	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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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

TSCA Inventory Listing

Components

1-Dodecanol, 2-octyl-

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

CAS-No.

5333-42-6

SARA 302 Status

Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CAS-No.

Weight percent

SARA 311/312 Classification

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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

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

European Union

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

Directive 96/82/EC does not apply

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. 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.

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STATE REGULATIONS**California Prop. 65****Components**

Hexane

CAS-No.

110-54-3

Sasol Chemicals (USA) LLC's ISOFOL alcohols may contain detectable quantities of n-hexane which is a chemical on the California Proposition 65 list. The level is typically below 290 ppm.

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

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