

## ISOFOL® 20 Alcohol

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


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<b>Trade name</b>	ISOFOL® 20 Alcohol		
<b>Synonyms</b>	Branched C20 Alcohol, Octyldodecanol		
<b>Use</b>	Industrial use, Lubricant or lubricant additive, Raw material for cosmetic agents, Raw material for pharmaceuticals		
<b>Company</b>	Sasol Chemicals (USA) LLC (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
	MSDS 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		

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**SECTION 2 HAZARDS IDENTIFICATION**


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

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**


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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Dodecanol, 2-octyl-	5333-42-6	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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**SECTION 4 FIRST AID MEASURES**


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<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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**

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**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**

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**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**

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**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**

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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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<b>Appearance</b>	liquid;
<b>Colour</b>	colourless
<b>Form</b>	liquid
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>Flash point</b>	> 170 °C, > 338 °F; DIN 51758;
<b>Flammability</b>	Upper explosion limit: no data available Lower explosion limit: no data available
<b>Boiling point/boiling range</b>	no data available
<b>Melting point/range</b>	approximately -4 - 1 °C, 25 - 33 °F;
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature</b>	no data available;
<b>Flammability (solid, gas)</b>	no data available
<b>Vapour pressure</b>	approximately < 1,000 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	no data available
<b>Density</b>	approximately 0.8 g/cm <sup>3</sup> @ 20 °C, 68 °F; DIN 51757;
<b>Specific gravity</b>	no data available
<b>Water solubility</b>	insoluble
<b>Viscosity</b>	no data available
<b>Viscosity, dynamic</b>	approximately 60 mPa.s @ 20 °C, 68 °F;
<b>pH</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	log Pow: > 8; @ 23 °C, 73 °F; OECD Test Guideline 117;

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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>	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
<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: > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	no data available
<b>Acute oral toxicity</b>	LD50 rat: > 2,000 mg/kg
<b>Skin corrosion/irritation</b>	(rabbit) slight irritation
<b>Eye damage/irritation</b>	(rabbit) slight irritation
<b>Respiratory or skin sensitization</b>	guinea pig: not sensitizing; Maximisation Test (literature value)
<b>Germ cell mutagenicity</b>	<b>Genotoxicity in vitro:</b> In vitro tests did not show mutagenic effects.  <b>Genotoxicity in vivo:</b> In vivo tests did not show mutagenic effects  <b>Assessment Mutagenicity:</b> Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> no data available  <b>Assessment Reproductive toxicity:</b> no data available  <b>Teratogenicity:</b> rat; Oral; 20-day; OECD Test Guideline 414

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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  
 (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.

**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

**Biodegradation** Readily biodegradable.  
 OECD Test Guideline 310 (28 d): > 60 %

**Bioaccumulation** no data available

**Mobility in soil** no data available

**Other adverse effects** no data available

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## SECTION 13 DISPOSAL CONSIDERATIONS

## ISOFOL® 20 Alcohol

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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.

**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

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**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

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### U.S. FEDERAL REGULATIONS

**OSHA Hazards (HCS 1994)**  
Non-hazardous substance

**TSCA Inventory Listing**  
**Components**  
1-Dodecanol, 2-octyl-

**CAS-No.**  
5333-42-6

**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**  
**Components**

**CAS-No.**

**Weight percent**

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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**

none

**Reportable Quantity**

**Weight percent**

### 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.

Directive 96/82/EC does not apply

<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>Canadian Non-Domestic Substance Listing (NDSL)</b>	Not listed
<b>European Inventory of Existing Commercial Chemical Substances (EINECS) Listing</b>	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/ Instability</u>
<b>HMIS®</b>	1	1	0
<b>NFPA</b>	1	1	0

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