

ISOFOL 12 Alcohol

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

Trade name	ISOFOL 12 Alcohol	
Synonyms	Branched alcohol; Butyloctanol; 1-Octanol, 2-butyl-	
Use	Industrial use, Industrial & Institutional cleaning, 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

OSHA/GHS Hazards	Acute aquatic toxicity	Category 1
	Chronic aquatic toxicity	Category 2

LABEL ELEMENTS

Hazard symbols



Signal word Warning

Hazard statements H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention P273 Avoid release to the environment.

Response P391 Collect spillage.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octanol, 2-butyl-	3913-02-8	>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.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES**Fire/explosion**

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.

Further information 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. Material can create slippery conditions. 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. Do not flush into surface water or sanitary sewer system.

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SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/Transport pressure 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.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Colour colourless

Form liquid

Odour sweet

Odour Threshold No data available

Flash point approximately 120 °C, 248 °F; DIN 51758;

Flammability Upper explosion limit: No data available

Lower explosion limit: No data available

Boiling point/boiling range approximately 243 °C, 469 °F;

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Melting point/range	< -30 °C, < -22 °F;
Auto-ignition temperature	approximately 255 °C, 491 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.081 hPa @ 38 °C, 100 °F;
Vapour density	No data available
Density	approximately 0.834 g/cm ³ @ 20 °C, 68 °F;
Relative density	No data available
Water solubility	@ 23 °C, 73 °F; ASTM E 1148; insoluble
Viscosity	11.91 cSt @ 40 °C, 104 °F;
Viscosity, dynamic	approximately 23 mPa.s @ 20 °C, 68 °F;
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 5.5; @ 23 °C, 73 °F; OECD Test Guideline 117

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable under recommended storage conditions.
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.

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 Rabbit: > 2 mg/kg CUST-000000001017371 Test substance: 2-Butyloctan-1-ol
Acute inhalation toxicity	No data available
Acute oral toxicity	LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401 Test substance: 2-Butyloctan-1-ol
Skin corrosion/irritation	Primary irritation (Rabbit): 0.4 (Max. score is 8.0.)
Serious eye damage/eye irritation	Primary irritation (Rabbit): 3.3 (Max. score is 110.) Irritation was completely gone by day 3, the last day of observation.
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Genotoxicity in vitro: No data available 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; 90-day; OECD Test Guideline 408 NOAEL: 839.6 mg/kg Test substance: 2-Butyloctan-1-ol Based on available data, the classification criteria are not met.
Aspiration toxicity	No data available

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

SECTION 12 ECOLOGICAL INFORMATION

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

Toxicity to fish LD50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 0.1 - 1 mg/l; semi-static test;
OECD Test Guideline 203
Test substance: 2-Butyloctan-1-ol

Toxicity to aquatic invertebrates EC50 (Daphnia magna (Water flea)) 48 hours: > 0.1 - 1 mg/l; OECD Test Guideline 202
Test substance: 2-Butyloctan-1-ol

Toxicity to algae ErC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 1 - 10 mg/l; OECD
Test Guideline 201
Test substance: 2-Butyloctan-1-ol

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates NOEC (Daphnia magna (Water flea)) 21 d: 0.014 mg/l; semi-static test; OECD Test
Guideline 211
Test substance: 1-Dodecanol
(literature value)

Biodegradation Readily biodegradable.
OECD Test Guideline 310 (28 d): > 60 %
aerobic
Test substance: 2-Butyloctan-1-ol

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects No data available

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.

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. (2-Butyloctanol), 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. (2-Butyloctanol), 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., (2-Butyloctanol), 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-Octanol, 2-butyl-

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

CAS-No.

3913-02-8

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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

Acute aquatic toxicity Category 1

Chronic aquatic toxicity Category 2

European Union

Classification according to Regulation (EU) 1272/2008.

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 2

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)	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 Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed

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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/ Instability</u>
HMIS®	1	1	0
NFPA	1	1	0

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