



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 18.03.2021

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name

Iso-Butanol

Synonyms

2-Methyl-propan-1-ol, 2-Methylpropyl alcohol, 1-Hydroxymethylpropane, Isopropyl Carbinol, i-Butyl alcohol.

Product code

2059

CAS-No.

78-83-1

Relevant identified uses of the substance or mixture and uses advised against

Use

Solvent. Raw material for washing and cleaning agents. Raw material for fragrances. Paint related material Industrial use.

Uses advised against

Prohibited for use in production of hand sanitizer.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

Address

Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone

+27103445000

E-mail address

sasolchem.info.sa@sasol.com

Emergency telephone

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)
+44(0)1235 239 671 (Middle East, Arabic African countries)
+65 3158 1074 (Asia Pacific)

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+86 400 120 6011 (China)

+27 (0)17 610 4444 (South Africa)

0800 112 890 RSA-Local only

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

GHS Classification

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2016-19) (GHS 2011)

Classification	Flammable liquids	Category 3
	Skin corrosion	Category 1B
	Specific target organ toxicity - single exposure	Category 3
	Serious eye damage	Category 1

GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H226 Flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.



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H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

Precautionary Statements

: **Prevention:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash the contact area thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT



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induce vomiting.

P363 Wash contaminated clothing before reuse.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

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

Other hazards

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 3. Composition/information on ingredients

Substance

Iso-butanol

Contents: 99.50 %W/W

CAS-No. 78-83-1

Index-No. 603-108-00-1

EC-No. 201-148-0

Hazard Statements *H226 H314 H318 H336*

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Eye contact

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Get medical attention immediately

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray, Foam, CO2, Dry powder.
Unsuitable extinguishing media	Do NOT use water jet.
Special hazards arising from the substance or mixture	Hazardous decomposition products
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Use personal protective equipment. Do not breathe vapors or spray mist. Ensure adequate ventilation. Keep away from sources of ignition - No smoking.
Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must

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be disposed of in accordance with regulations.

Reference to other sections Refer to Section 8 and 13

SECTION 7. Handling and storage

Safe handling advice Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion No data available

Requirements for storage areas and containers Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Advice on common storage No data available

SECTION 8. Exposure controls/personal protection

Ingredients with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ISOBUTYL ALCOHOL	TWA	150 mg/m ³	06 2008	Korea OELs
	TWA	50 ppm	06 2008	Korea OELs

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

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Personal protective equipment

Respiratory protection	Wear self-contained breathing apparatus and protective suit.
Hand protection	Gloves suitable for permanent contact: Material: butyl-rubber Break through time: 4 h Material thickness: 0.5 mm
Eye protection	Safety glasses with side-shields
Skin and body protection	Protective suit Safety shoes
Hygiene measures	Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Color	Colorless
Odor	Sweet musty
Odor Threshold	No data available
Melting point/range	-108 ° C
Boiling point/boiling range	108 ° C
Flash point	28 ° C; closed cup

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Evaporation rate	No data available
Flammability (solid, gas)	No data available
Autoignition temperature	428.7 ° C
Decomposition Temperature	No data available
Vapor pressure	14 hPa; 20 ° C
Relative vapor density	2.55
Density	0.801 g/cm ³ ; 20 ° C
Water solubility	partly soluble, partly miscible
Viscosity, dynamic	4.7 mPa.s
Viscosity, kinematic	4.609 mm ² /s

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Heating can release hazardous gases.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Oxidizing agents Reducing agents Acids and bases
Hazardous decomposition products	No decomposition if stored normally.

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SECTION 11. Toxicological information

Acute oral toxicity	Iso-butanol: LD50 Rat: female > 2,830 mg/kg; GLP: yes (literature value)
Acute inhalation toxicity	Iso-butanol: LC0 Rat: male and female; 6 h; vapor; > 6000 ppm; OECD Test Guideline 403; GLP: yes; (literature value)
Acute dermal toxicity	Iso-butanol: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value)
Skin irritation	Iso-butanol: Rabbit: Not irritating; (literature value)
Eye irritation	Iso-butanol: Rabbit: irritating (literature value)
Sensitization	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	Iso-butanol: Experiments showed mutagenic effects in cultured bacterial cells. Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)

SECTION 12. Ecological information

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Toxicity to fish	Iso-butanol: flow-through test; Pimephales promelas; 96 h; LC50; 1,430 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Iso-butanol: static test; Daphnia pulex (Water flea); 48 h; EC50; 1,100 mg/l(literature value)
Toxicity to bacteria	No data available
Toxicity to fish	No data available
Chronic toxicity in aquatic invertebrates	No data available
Biodegradability	Iso-butanol: aerobic; 100 mg/l; > 70 %; 14 d; Readily biodegradable.; OECD Guideline 301 A (new version); (literature value)
Bioaccumulation	No data available
Mobility in soil	Iso-butanol: No data available
Results of PBT and vPvB assessment	Iso-butanol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Other adverse effects	Iso-butanol: No data available

SECTION 13. Disposal considerations

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Product	Disposal should be in accordance with local, regional and national legislations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR

UN number:	1212
Class:	3
Packaging group:	III; F1;
Proper shipping name:	ISOBUTANOL

RID

UN number:	1212
Class:	3
Packaging group:	III; F1
Proper shipping name:	ISOBUTANOL

IMDG

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UN number: 1212
Class: 3
EmS: F-E, S-D
Packaging group: III
Proper shipping name: ISOBUTANOL
Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1212
Class: 3
Packaging group: III
Proper shipping name: ISOBUTANOL
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Isobutyl alcohol
Ship Type: 3
Pollution Category: Z

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Inv. of Exist. Chem. Substances in China

All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)



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USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H226 Flammable liquid and vapor.

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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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