



Safety Data Sheet

Iso-Butanol

Version 1.01

Revision Date 15.11.2021

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. 2-Methyl-1-propanol, iso-Butanol, Isobutyl 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 number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44(0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +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

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Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 3
	Skin irritation	Category 2
	Serious eye damage	Category 1
	Specific target organ toxicity - single exposure	Category 3

Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

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Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
- P242 Use non-sparking tools.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage

- P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

HAZARDOUS INGREDIENTS

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 H315 H318 H335 H336*

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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. 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.

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.



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SECTION 6. Accidental release measures

- Personal precautions** Use personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Use non-sparking tools. Shut off all sources of ignition.
- 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 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

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis



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ISOBUTYL ALCOHOL	TWA	150 mg/m ³	1995	South Africa RELs
ISOBUTYL ALCOHOL	TWA	50 ppm	1995	South Africa RELs
	STEL	225 mg/m ³	1995	South Africa RELs
	STEL	75 ppm	1995	South Africa RELs

Exposure controls

Engineering measures

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

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
Colour	Colourless
Odour	Sweet musty
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-108 ° C
Boiling point/boiling range	108 ° C; ASTM D86
Flash point	27 ° C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.

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Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Decomposition	No data available.
Temperature	
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapour pressure	11.8 hPa; 20 ° C
Relative vapour density	2.55(Air = 1.0)
Density	0.801 g/cm ³ ; 20 ° C; ASTM D4052
Water solubility	Partly soluble, Partly miscible
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	4.61 mm ² /s; 20 ° C; ASTM D 445

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.

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; vapour; > 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:

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Eye irritation	Rabbit: Not irritating; (literature value) Iso-butanol: Rabbit: Irritating (literature value)
Sensitisation	No data available.
Repeated dose toxicity	No data available.
Carcinogenicity	No human information is available.
Mutagenicity	Iso-butanol: Experiments showed mutagenic effects in cultured bacterial cells. Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)
Further Information	Suspected of damaging fertility or the unborn child.

SECTION 12. Ecological information

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.
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).

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Other adverse effects

Iso-butanol:

No data available.

SECTION 13. Disposal considerations

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

UN number: 1212
 Class: 3
 EmS: F-E, S-D
 Packaging group: III
 Proper shipping name: ISOBUTANOL

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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)
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)



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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 vapour.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- 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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