



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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

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.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

Address

Sasol Place, 50 Katherine Street
Sandton
2090

Telephone

South Africa
+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 10 5100 3039 (China)
+27 (0)17 610 4444 (South Africa)

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

0800 112 890 RSA-Local only

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification




Classification of the substance or mixture

GHS Classification

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

GHS label elements

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	:	Prevention:

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019



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.

P264 Wash skin thoroughly after handling.

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.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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

Storage:

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

Disposal:



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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

Other hazards which do not result in classification

None known.

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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 H315 H318 H335 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 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



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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.

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.
Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

ISOBUTIL ALKOHOL	TWA TWA	152 mg/m ³ 50 ppm	02 2005 02 2005	Indonesia OELs Hazard Data Indonesia OELs Hazard Data
------------------	------------	---------------------------------	--------------------	--

Contains no substances with occupational exposure limit values.

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

Print Date 11.03.2019

100000000534

8/15

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Colourless
Odour	Sweet musty
Odour Threshold	No data available
Melting point/range	-108 ° C
Boiling point/boiling range	108 ° C
Flash point	28 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	428.7 ° C
Vapour pressure	14 hPa; 20 ° C
Relative vapour 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.

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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: > 2,000 mg/kg; OECD Test Guideline 401; (literature value)
Acute dermal toxicity	Iso-butanol: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value)
Skin irritation	Iso-butanol: Rabbit: irritating; OECD Test Guideline 404 (literature value)
Eye irritation	Iso-butanol: Rabbit: Risk of serious damage to eyes. OECD Test Guideline 405 (literature value)
Sensitisation	No data available
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	Iso-butanol: Experiments showed mutagenic effects in cultured bacterial

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

cells.Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)

Further Information

This information is not available.

SECTION 12. Ecological information

Toxicity to fish

Iso-butanol:
semi-static test; Pimephales promelas; 96 h; LC50; > 100 mg/l;
literature value; (literature value)

Toxicity to daphnia and other aquatic invertebrates

Iso-butanol:
static test; Daphnia magna (Water flea); 48 h; EC50; (literature value)

Toxicity to algae

Iso-butanol:
static test; Scenedesmus quadricauda 8 d; EC50; (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; > 70 %; 14 d; Readily biodegradable.; OECD
Guideline 301 A (new version); (literature value)

Bioaccumulation

No data available



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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

Product	Disposal should be in accordance with local, regional and national legislations.
----------------	--

SECTION 14. Transport information

ADR

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

RID

UN number:	1212
-------------------	------

Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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
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 Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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)
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)



Safety Data Sheet

Iso-Butanol

Version 1.00

Revision Date 27.02.2019

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.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.