



Safety Data Sheet

n-Butanol

Version 1.00

Revision Date 16.11.2022

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

Product identifier

Trade name

n-Butanol

Synonyms

1-Hydroxybutane, Methylolpropane, n-Butan-1-ol,
Propylcarbinol, 1-Butanol; Butyl alcohol.

Product code

3100

CAS-No.

71-36-3

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

Use

Solvent. 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

Supplier's details

Sasol Chemicals Pacific Ltd

2 Shenton way #06-01

SGX Centre 1

068804

Singapore

Telephone

+65 6533 8856

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E-mail address	info.sg@sasol.com
Emergency Phone Number	
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

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
	Acute oral toxicity	Category 4
	Specific target organ toxicity - single exposure	Category 3

GHS label elements

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash the contact area thoroughly after handling.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P317 If skin irritation occurs: Get medical advice/ attention.

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

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

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.

P337 + P317 If eye irritation persists: Get medical advice/attention.

Storage:

P403 + P235 Store in a well-ventilated place. 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

n-Butanol

Contents: 100.00 %W/W

CAS-No. 71-36-3

Index-No. 603-004-00-6

EC-No. 200-751-6

Hazard statements *H226 H302 H335 H315 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 vapours. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician 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. Dry powder. Alcohol-resistant foam.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance. Do not allow run-off from fire fighting to enter drains or water courses.
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. 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.

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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. Provide sufficient air exchange and/or exhaust in work rooms. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on protection against fire and explosion

Use explosion-proof equipment. Provide sufficient air exchange and/or exhaust in work rooms. Keep away from sources of ignition - No smoking.

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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N-BUTANOL	TLV-C	152 mg/m ³	11 2011	Indonesia OELs Hazard
N-BUTANOL	TLV-C	50 ppm	11 2011	Data
				Indonesia OELs Hazard
				Data

Exposure controls

Engineering measures

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

Personal protective equipment

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

Clear, colourless

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Odour	Alcohol-like
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-89.5 ° C
Boiling point/boiling range	118 ° C; ASTM D86
Flash point	35 ° C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Decomposition Temperature	No data available.
Lower explosion limit	1.4 %(V)
Upper explosion limit	11.3 %(V)
Vapour pressure	6.67 hPa; 20 ° C
Relative vapour density	2.55(Air = 1.0)
Density	0.808 g/cm ³ ; 20 ° C; ASTM D4052
Water solubility	Partly soluble
Viscosity, kinematic	3.582 m ² /s; 20 ° C; ASTM D 445

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
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Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Oxidizing agents. Reducing agents. Acids and bases
Hazardous decomposition products	Stable under recommended storage conditions.

SECTION 11. Toxicological information

Acute oral toxicity	n-Butanol: LD50 Mouse: 2,680 mg/kg; OECD Test Guideline 401; GLP: no (literature value)
Acute inhalation toxicity	n-Butanol: LC0 Rat: male and female; 7 h; vapour; 21.48 mg/l; (literature value)
Acute dermal toxicity	n-Butanol: LD50 Rabbit: male; 3,430 mg/kg; GLP: no; (literature value)
Skin irritation	n-Butanol: Rabbit: Irritating; OECD Test Guideline 404 GLP: no; (literature value)
Eye irritation	n-Butanol: Rabbit: Irritating GLP: no; (literature value)
Mutagenicity	Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; GLP: no; (literature value)

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value)

Further Information

No data available.

SECTION 12. Ecological information

Toxicity to fish

n-Butanol:
flow-through test; Pimephales promelas; 96 h; LC50; 1,730 mg/l; GLP: no; (literature value)

Toxicity to daphnia and other aquatic invertebrates

n-Butanol:
static test; Daphnia magna; 48 h; EC50; 1,983 mg/l; GLP: no; (literature value)

Biodegradability

n-Butanol:
aerobic; activated sludge of a predominantly domestic sewage; 3 mg/l; 92 %; 20 d; Readily biodegradable.; GLP: no; (literature value)

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

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DG Pictogram



ADR

UN number: 1120
Class: 3
Packaging group: III; F1;
Proper shipping name: BUTANOLS

RID

UN number: 1120
Class: 3
Packaging group: III; F1
Proper shipping name: BUTANOLS

ADNR

UN number: 1120
Class: 3
Packaging group: III; F1
Proper shipping name: BUTANOLS

IMDG

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UN number: 1120

Class: 3

EmS: F-E, S-D

Packaging group: III; Not a Marine Pollutant

Proper shipping name: BUTANOLS

Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1120

Class: 3

Packaging group: III

Proper shipping name: BUTANOLS

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant
Pollution Category: Z

SECTION 15. Regulatory information

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

USA TSCA Inventory

All chemical constituents are listed in: USA TSCA Inventory
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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 vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

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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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