



Safety Data Sheet

Sabutol

Version 1.01

Revision Date 25.01.2023

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

Product identifier

Trade name Sabutol

Product code 2051

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

Use Raw material for printing inks and printing ink additives. Paint related material.

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

E-mail address info.sg@sasol.com

Emergency Phone Number

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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

Model Work Health and Safety Regulations 2011, Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011), Guidance on the Classification of Hazardous Chemicals under the WHS Regulations (2012) (GHS 2009)

Classification		
	Flammable liquids	Category 3
	Acute toxicity (Oral)	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	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. H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. 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/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. Response: P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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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 or doctor/ physician.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

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

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

HAZARDOUS INGREDIENTS

n-Butanol

Contents: ≥ 60.00 %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*

Pentan-2-ol

Contents: < 25.00 %W/W

CAS-No. 6032-29-7

Index-No. 603-006-00-7

EC-No. 227-907-6

Hazard statements *H226 H315 H335*

Iso-butanol

Contents: < 20.00 %W/W

CAS-No. 78-83-1

Index-No. 603-108-00-1

EC-No. 201-148-0

3-Methylbutan-2-ol

Contents: < 10.00 %W/W

CAS-No. 598-75-4

Index-No. 603-006-00-7

EC-No. 209-950-2

Hazard statements *H226 H332 H335*

Pentan-3-ol

Contents: < 10.00 %W/W

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CAS-No. 584-02-1

Index-No. 603-006-00-7

EC-No. 209-526-7

Hazard statements *H226 H332 H335 H315*

Propan-1-ol

Contents: < 5.00 %W/W

CAS-No. 71-23-8

Index-No. 603-003-00-0

EC-No. 200-746-9

Hazard statements *H225 H318 H336*

Butan-2-ol

Contents: < 5.00 %W/W

CAS-No. 78-92-2

Index-No. 603-004-01-3

EC-No. 201-158-5

Hazard statements *H319 H335 H336 H226*

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

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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.

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.

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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. 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



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Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-BUTYL ALCOHOL	PEAK	152 mg/m ³	08 2005	Australia OELs
N-BUTYL ALCOHOL	PEAK	50 ppm	08 2005	Australia OELs
ISOBUTYL ALCOHOL	TWA	152 mg/m ³	08 2005	Australia OELs
	TWA	50 ppm	08 2005	Australia OELs
SEC-BUTYL ALCOHOL	TWA	303 mg/m ³	08 2005	Australia OELs
	TWA	100 ppm	08 2005	Australia OELs
PROPYL ALCOHOL	TWA	492 mg/m ³	08 2005	Australia OELs
PROPYL ALCOHOL	TWA	200 ppm	08 2005	Australia OELs
PROPYL ALCOHOL	STEL	614 mg/m ³	08 2005	Australia OELs
	STEL	250 ppm	08 2005	Australia OELs

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



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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	Alcohol-like
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-89 ° C
Boiling point/boiling range	117 ° C
Flash point	35 ° C; 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	11.2 %(V)

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Vapour pressure	No data available.
Relative vapour density	No data available.
Density	0.81 g/cm ³ ; 20 ° C
Water solubility	Partly soluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	4.05 mm ² /s; 20 ° C

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
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	Butan-2-ol: LD50 Oral Rat: male 2,054 mg/kg; (literature value)
Acute oral toxicity	Propan-1-ol:

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	LD50 Oral : > 2,000 mg/kg; (literature value)
Acute oral toxicity	n-Butanol: LD50 Mouse: 2,680 mg/kg; OECD Test Guideline 401; GLP: no (literature value)
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 inhalation toxicity	n-Butanol: LC0 Rat: male and female; 7 h; vapour; 21.48 mg/l; (literature value)
Acute inhalation toxicity	Propan-1-ol: LC50 Rat: male and female; 4 h; vapour; 13548 ppm; GLP: yes; (literature value)
Acute inhalation toxicity	Butan-2-ol: LC50 Rat: male; 4 h; vapour; 16000 ppm; GLP: no; (literature value)
Acute dermal toxicity	n-Butanol: LD50 Rabbit: male; 3,430 mg/kg; GLP: no; (literature value)
Acute dermal toxicity	Iso-butanol: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402; (literature value)
Acute dermal toxicity	Propan-1-ol: LD50 Dermal Rabbit: male; 6,730 mg/kg; (literature value)

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Acute dermal toxicity	Butan-2-ol: LD50 Dermal Rat: male and female; > 2,000 mg/kg; (literature value)
Skin irritation	Propan-1-ol: Rabbit: Not irritating; Draize Test (literature value)
Skin irritation	n-Butanol: Rabbit: Irritating; OECD Test Guideline 404 GLP: no; (literature value)
Skin irritation	Iso-butanol: Rabbit: Not irritating; (literature value)
Eye irritation	n-Butanol: Rabbit: Irritating GLP: no; (literature value)
Eye irritation	Iso-butanol: Rabbit: Irritating (literature value)
Eye irritation	Propan-1-ol: Rabbit: Highly irritating 24 - 72 h; (literature value)
Eye irritation	Butan-2-ol: Rabbit: Irritating OECD Test Guideline 405 1 d; GLP: yes; (literature value)
Mutagenicity	Propan-1-ol: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)
Mutagenicity	n-Butanol: Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; GLP: no; (literature value)

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value)

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

Toxicity to fish

Propan-1-ol:

static test; Pimephales promelas; 96 h; LC50; 4,650 mg/l; GLP: no; (literature value)

Toxicity to fish

Butan-2-ol:

static test; Pimephales promelas; 96 h; LC50; 2,993 mg/l; (literature value)

Toxicity to fish

n-Butanol:

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

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 daphnia and other

n-Butanol:

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aquatic invertebrates	static test; Daphnia magna; 48 h; EC50; 1,983 mg/IGLP: no; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; 3,644 mg/l(literature value)
Toxicity to daphnia and other aquatic invertebrates	Butan-2-ol: static test; Daphnia magna (Water flea); 24 h; EC50; 2,300 mg/IGLP: no; (literature value)
Toxicity to bacteria	Propan-1-ol: Growth inhibition; 16 h; > 5,000 mg/l; ; ; Information taken from reference works and the literature.
Toxicity to bacteria	Butan-2-ol: Pseudomonas putida; 16 h; 500 mg/IGLP: no; ; Information taken from reference works and the literature.
Toxicity to bacteria	n-Butanol: Pseudomonas putida; 17 h; EC50; 4,390 mg/l; Information taken from reference works and the literature.
Toxicity to bacteria	Iso-butanol: Pseudomonas putida; 16 h; 280 mg/l; Information taken from reference works and the literature.
Chronic toxicity in aquatic invertebrates	Propan-1-ol: semi-static test; Daphnia magna; ; 21 dEC50; 100 mg/IOECD Guideline 211; ; (literature value)
Chronic toxicity in aquatic invertebrates	n-Butanol: semi-static test; Daphnia magna; ; 21 d4.1 mg/l; (literature value)

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Chronic toxicity in aquatic invertebrates	Iso-butanol: Daphnia magna; ; 21 d20 mg/l; Information taken from reference works and the literature.
Biodegradability	Propan-1-ol: aerobic; 3 mg/l; 81 %; 20 d; Readily biodegradable.; (literature value)
Biodegradability	Butan-2-ol: aerobic; 86 %; 5 d; 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)
Biodegradability	Iso-butanol: aerobic; 100 mg/l; > 70 %; 14 d; Readily biodegradable.; OECD Guideline 301 A (new version); (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: 1987
Class: 3
Packaging group: III; F1;
Proper shipping name: ALCOHOLS, N.O.S.
(butanols, pentanols)

RID

UN number: 1987
Class: 3
Packaging group: III; F1
Proper shipping name: ALCOHOLS, N.O.S.
(butanols, pentanols)

ADNR

UN number: 1987

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Class: 3

Packaging group: III; F1

Proper shipping name: ALCOHOLS, N.O.S.
(butanols, pentanols)

IMDG

UN number: 1987

Class: 3

EmS: F-E, S-D

Packaging group: III

Proper shipping name: ALCOHOLS, N.O.S.
(butanols, pentanols)

Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1987

Class: 3

Packaging group: III

Proper shipping name: ALCOHOLS,N.O.S.
(butanols, pentanols)



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Noxious liquid, N, F, (8) n.o.s (Sabutol, contains - n-propyl alcohol)
Ship Type: 3
POLLUTION CATEGORY: Y

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 (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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- 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.



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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.