



Safety Data Sheet

n-Propanol

Version 1.01

Revision Date 29.08.2019

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

Product identifier

Trade name

n-Propanol

Synonyms

1-Propanol, Hydroxypropane, 1-Propyl alcohol, Ethyl carbinol,
n-Propan-1-ol, n-Propyl alcohol.

Product code

2044

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

Use

Solvent. 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
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



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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 10 5100 3039 (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

Classification	Hazardous Substances (Classification) Regulations 2001, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, Approved Code of Practice on Labelling of Hazardous Substances (HSNO CoP 10-1 08-07), EPA User Guide to Thresholds and Classifications under the Hazardous Substances and New Organisms Act 1996, EPA Labelling of Hazardous Substances: Hazard and Precautionary Information (GHS 2007)
	Flammable Liquids 3.1C
	Acute toxicity (Oral) 6.1D

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Acute toxicity (Dermal)	6.1E
Eye irritation	6.4A
Ecotoxic to terrestrial vertebrates	9.3C

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H319 Causes serious eye irritation.
H433 Harmful to terrestrial vertebrates.

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.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.



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Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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

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

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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

Storage:

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

Disposal:

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

Other hazards which do not result in classification

None known.

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SECTION 3. Composition/information on ingredients

Substance

Propan-1-ol

Contents: 99.90 %W/W

CAS-No. 71-23-8

Index-No. 603-003-00-0

EC-No. 200-746-9

Hazard statements *H226 H302 H313 H319 H433*

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. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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



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person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO ₂)
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Ensure adequate ventilation.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Do not allow material to

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contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Reference to other sections Refer to Section 8 and 13

SECTION 7. Handling and storage

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

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Temperature class T1

Fire-fighting class Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

Requirements for storage areas and containers Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.

Advice on common storage Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

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NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-PROPYL ALCOHOL	TWA	492 mg/m ³	02 2013	New Zealand WES
N-PROPYL ALCOHOL	TWA	200 ppm	02 2013	New Zealand WES
N-PROPYL ALCOHOL	STEL	614 mg/m ³	02 2013	New Zealand WES
	STEL	250 ppm	02 2013	New Zealand WES

Exposure controls

Engineering measures

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

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory 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. Take off all contaminated clothing immediately.

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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	7
Melting point/range	-126.2 ° C
Boiling point/boiling range	97.2 ° C
Flash point	26 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	371 ° C
Lower explosion limit	2.1 %(V)
Upper explosion limit	13.5 %(V)
Vapour pressure	27.998 hPa; 25 ° C
Relative vapour density	2.1
Density	0.805 g/cm ³ ; 20 ° C
Water solubility	Completely miscible

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Viscosity, dynamic 2.170 mPa.s; 40 ° C

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents. Incompatible with acids. Halogenated compounds
Hazardous decomposition products	Carbon oxides.

SECTION 11. Toxicological information

Acute oral toxicity	Propan-1-ol: LD50 Oral Rat: > 2,000 mg/kg; (literature value)
Acute oral toxicity	Butan-2-ol: LD50 Oral Rat: > 2,000 mg/kg; (literature value)
Acute inhalation toxicity	Propan-1-ol: LC50 Rat: 4 h; vapour; > 20 mg/l; (literature value)
Acute dermal toxicity	Propan-1-ol: LD50 Dermal Rabbit: > 2,000 mg/kg; (literature value)

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Skin irritation	Propan-1-ol: Rabbit: Not irritating; Draize Test (literature value)
Eye irritation	Propan-1-ol: Rabbit: Risk of serious damage to eyes. Draize Test (literature value)
Sensitisation	Propan-1-ol: Maximisation Test; Guinea pig: Not sensitizing; (literature value)
Mutagenicity	Propan-1-ol: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)

SECTION 12. Ecological information

Toxicity to fish	Propan-1-ol: semi-static test; Leuciscus idus; 96 h; LC50; > 100 mg/l; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
Toxicity to algae	Propan-1-ol: static test; Pseudokirchneriella subcapitata (green algae)EC50; > 100 mg/l; literature value
Biodegradability	Propan-1-ol:

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	aerobic; Readily biodegradable.; (literature value)
Mobility in soil	No data available
Results of PBT and vPvB assessment	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).

SECTION 13. Disposal considerations

Product	In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
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SECTION 14. Transport information

ADR

UN number:	1274
Class:	3
Packaging group:	III; F1;
Proper shipping name:	n-PROPANOL

RID

UN number:	1274
Class:	3

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Packaging group:	III; F1
Proper shipping name:	n-PROPANOL
IMDG	
UN number:	1274
Class:	3
EmS:	F-E, S-D
Packaging group:	III
Proper shipping name:	n-PROPANOL
Marine pollutant	Not a Marine Pollutant
ICAO/IATA	
UN number :	1274
Class:	3
Packaging group:	III
Proper shipping name:	n-PROPANOL
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	n-Propanol Pollution Category: Y Ship Type: 3

SECTION 15. Regulatory information

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

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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 vapour.

H302 Harmful if swallowed.

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H313 May be harmful in contact with skin.

H319 Causes serious eye irritation.

H433 Harmful to terrestrial vertebrates.

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.