

Safety Data Sheet

n-Propanol

Version 1.02

Revision Date 02.09.2021

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

CAS-No.

71-23-8

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

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)

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0800 112 890 RSA-Local only

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

GHS Classification

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)

Flammable liquids	Category 3
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.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.



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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.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ 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 or doctor/ physician.

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.



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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

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 *H225 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. 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 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. Alcohol-resistant foam. Dry chemical. Carbon dioxide.
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 contaminate ground water system. Do not flush into surface water or sanitary sewer system.



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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

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

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

Exposure controls

Engineering measures

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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.

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

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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
Decomposition Temperature	No data available
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
Partition coefficient: n-octanol/water	No data available
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.

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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 : > 2,000 mg/kg; (literature value)
Acute oral toxicity	Butan-2-ol: LD50 Oral Rat: male 2,054 mg/kg; (literature value)
Acute inhalation toxicity	Propan-1-ol: LC50 Rat: male and female; 4 h; vapour; 13548 ppm; GLP: yes; (literature value)
Acute dermal toxicity	Propan-1-ol: LD50 Dermal Rabbit: male; 6,730 mg/kg; (literature value)
Skin irritation	Propan-1-ol: Rabbit: Not irritating; Draize Test (literature value)
Eye irritation	Propan-1-ol: Rabbit: Highly irritating 24 - 72 h; (literature value)
Mutagenicity	Propan-1-ol: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)

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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 daphnia and other aquatic invertebrates	Propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; 3,644 mg/l(literature value)
Biodegradability	Propan-1-ol: aerobic; 3 mg/l; 81 %; 20 d; 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.
Packaging	Dispose of spent product packaging responsibly and lawfully

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with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR

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

RID

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

IMDG

UN number: 1274
Class: 3



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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

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)



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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

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

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



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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.