

Safety Data Sheet

n-Propanol

Version 1.07

Revision Date 15.11.2024

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, 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. Hand sanitizer manufacture.
Manufacturer or supplier's details	
Company	Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd
Address	Sasol Place, 50 Katherine Street Sandton 2090 Republic of 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) +86 532 8388 9090 (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

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 3
	Serious eye damage	Category 1
	Specific target organ toxicity - single exposure (Central nervous system)	Category 3

Label elements

REGULATION (EC) No 1272/2008

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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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 Get medical help.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage

P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. 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-Propanol

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

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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.
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	High volume water jet
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. Use non-sparking tools. 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.
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
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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

Components	Type	Control parameters	Update	Basis
N-PROPANOL	TWA	500 mg/m ³	1995	South Africa RELs
N-PROPANOL	TWA	200 ppm	1995	South Africa RELs
PROPAN-1-OL	STEL	625 mg/m ³	1995	South Africa RELs
PROPAN-1-OL	STEL	250 ppm	1995	South Africa RELs

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.

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

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pH	Not applicable
Melting point/range	-126 °C
Boiling point/boiling range	97 °C; ASTM D86
Flash point	25 °C; ASTM D 93; 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	2.1 %(V)
Upper explosion limit	19.2 %(V)
Vapour pressure	20.3 hPa; 20 °C
Relative vapour density	2.07(Air = 1.0)
Density	0.802 g/cm ³ ; 20 °C; ASTM D4052
Water solubility	completely soluble
Partition coefficient: n-octanol/water	No data available
Viscosity, kinematic	2.24 mm ² /s; 20 °C; ASTM D 445

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	n-Propanol: LD50 : > 5,000 mg/kg; OECD Test Guideline 401; (literature value) Based on available data, the classification criteria are not met.
Acute inhalation toxicity	n-Propanol: LC50 Rat: 4 h; > 20 mg/l; OECD Test Guideline 403; (literature value), Based on available data, the classification criteria are not met.
Acute dermal toxicity	n-Propanol: LD50 Dermal Rabbit: > 2,000 - 5,000 mg/kg; OECD Test Guideline 402; (literature value), Based on available data, the classification criteria are not met.
Skin irritation	n-Propanol: Rabbit: No skin irritation; OECD Test Guideline 404 (literature value)
Eye irritation	n-Propanol: Rabbit: Risk of serious damage to eyes. Category 1; OECD Test Guideline 405 (literature value)
Sensitisation	n-Propanol: Maximisation Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value), Based on available data, the classification criteria are not met.
Carcinogenicity	n-Propanol: The substance has shown not to be genotoxic, therefore it is not expected to have carcinogenic potential., (literature value)

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Mutagenicity

n-Propanol:
In vitro tests did not show mutagenic effects; (literature value)

Toxicity for reproduction

n-Propanol:
Rat: OECD Test Guideline 413; No indications that the substance causes adverse effects on reproductive organs. Rat: Inhalation; OECD Guideline 414; Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses, (literature value)

SECTION 12. Ecological information**Toxicity to fish**

n-Propanol:
semi-static test; Pimephales promelas (fathead minnow); 96 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value)

Toxicity to daphnia and other aquatic invertebrates

n-Propanol:
static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l (literature value)

Toxicity to algae

n-Propanol:
static test; Pseudokirchneriella subcapitata (microalgae) Growth rate; 48 h; EC50; > 100 mg/l; (literature value)

Toxicity to bacteria

n-Propanol:
static test; 3 h; IC50; > 1,000 mg/l; ; activated sludge, domestic; (literature value)

Chronic toxicity to fish

n-Propanol:
No data available; The study is not necessary.

Chronic toxicity in aquatic invertebrates

n-Propanol:
NOEC; Daphnia magna; ; 21 dEC50; 68.3 mg/l reproduction rate; ; Fresh water; QSAR, (literature value)

Toxicity for organisms in the soil

n-Propanol:
The study is not necessary.; The substance does not pose a chronic hazard to soil organisms.

Toxicity for terrestrial flora

n-Propanol:
Triticum aestivum (wheat); 7 d; EC50; > 500 mg/kg; (literature value)

Toxicity for other terrestrial non-mammalian fauna

n-Propanol:
The study is not necessary., The product has low potential for bioaccumulation.

Biodegradability

n-Propanol:
aerobic; 70 %; 20 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)

Bioaccumulation

n-Propanol:
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected., (literature value)

Mobility in soil

n-Propanol:
Highly mobile in soils. Not expected to adsorb on soil.

Results of PBT and vPvB assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

Results of PBT and vPvB assessment

n-Propanol:
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.

Other adverse effects

n-Propanol:
Additional ecological information unknown

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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

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
ADNR	
UN number:	1274
Class:	3
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

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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)
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 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.

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