



# Safety Data Sheet

## n-Propanol

Version 1.03

Revision Date 30.08.2021

### 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

**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)

+86 400 120 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

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2016-19) (GHS 2011)

#### Classification

Flammable liquids	Category 3
Acute toxicity (Oral)	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity - single exposure	Category 3

#### GHS label elements

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

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.  
P264 Wash the contact area thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
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/ shower.

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P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

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 to extinguish.

#### **Storage:**

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

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

P405 Store locked up.

#### **Disposal:**

P501 Dispose of contents and container according to wastes control act.

#### **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 H302 H319 H335*

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

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

## SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Ensure adequate ventilation.
<b>Environmental precautions</b>	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

Components	Type	Control parameters	Update	Basis

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N-PROPYL ALCOHOL	TWA	500 mg/m <sup>3</sup>	08 2012	Korea OELs
N-PROPYL ALCOHOL	TWA	200 ppm	08 2012	Korea OELs
	STEL	625 mg/m <sup>3</sup>	08 2012	Korea OELs
	STEL	250 ppm	08 2012	Korea OELs

#### 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

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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
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 <sup>3</sup> ; 20 ° C
Water solubility	Completely miscible
Partition coefficient: n- octanol/water	No data available
Viscosity, dynamic	2.170 mPa.s; 40 ° C

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### SECTION 10. Stability and reactivity

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

### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Propan-1-ol: LD50 Oral : > 2,000 mg/kg; (literature value)
<b>Acute oral toxicity</b>	Butan-2-ol: LD50 Oral Rat: male 2,054 mg/kg; (literature value)
<b>Acute inhalation toxicity</b>	Propan-1-ol: LC50 Rat: male and female; 4 h; vapour; 13548 ppm; GLP: yes; (literature value)
<b>Acute dermal toxicity</b>	Propan-1-ol: LD50 Dermal Rabbit: male; 6,730 mg/kg; (literature value)
<b>Skin irritation</b>	Propan-1-ol:

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### Eye irritation

Rabbit: Not irritating; Draize Test (literature value)

Propan-1-ol:

Rabbit: Highly irritating 24 - 72 h; (literature value)

### Mutagenicity

Propan-1-ol:

Ames test: Salmonella typhimurium; 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 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).

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### SECTION 13. Disposal considerations

<b>Product</b>	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.
<b>Packaging</b>	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

### SECTION 14. Transport information

DG Pictogram



ADR

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

RID

<b>UN number:</b>	1274
<b>Class:</b>	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** n-Propanol

**to Annex II of MARPOL** Pollution Category: Y

**73/78 and the IBC Code** Ship Type: 3

## SECTION 15. Regulatory information

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

<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<b>Australian Inv. of Chem. Substances (AICS)</b>	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

### SECTION 16. Other information

Full text of H-Statements

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H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.