



# Safety Data Sheet

## n-Propanol

Version 1.10

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### 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 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 Japan KK  
Toshin Shoji Building, 5F  
2-12-6 Kyobashi, Chuo-ku  
Tokyo, 104-0031  
Japan

**Telephone** +81 - 3 - 6263-2061

**E-mail address** info.sg@sasol.com

**Emergency Phone Number**

**Emergency telephone** +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)  
+44(0)1235 239 671 (Middle East, Arabic African countries)  
+65 3158 1074 (Asia Pacific)

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+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

##### GHS Classification

##### GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)

Classification	Flammable liquids	Category 3
	Serious eye damage/eye irritation	Category 1
	Reproductive toxicity	Category 2
	Specific target organ toxicity - single exposure	Category 3

##### GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H226 Flammable liquid and vapor.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements

: **Prevention:**  
P203 Obtain, read and follow all safety instructions before use.  
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.

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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/ vapors/ 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.

P318 IF exposed or concerned, get medical advice.

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 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.

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

##### 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 H318 H335 H336 H361

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#### SECTION 4. First aid measures

##### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Ingestion</b>	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

<b>Suitable extinguishing media</b>	Water spray Alcohol-resistant foam Dry chemical. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	High volume water jet
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

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**Special protective equipment for firefighters** 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. Use non-sparking tools. Do not breathe vapors 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.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Reference to other sections</b>	Refer to Section 8 and 13

### SECTION 7. Handling and storage

<b>Safe handling advice</b>	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.
<b>Advice on protection against fire and explosion</b>	Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.
<b>Temperature class</b>	T1
<b>Requirements for storage areas and containers</b>	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.
<b>Advice on common storage</b>	Keep containers tightly closed in a cool, well-ventilated place.

### SECTION 8. Exposure controls/personal protection

**Ingredients with workplace control parameters**

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#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

#### 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

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 °C; 1,013 hPa
<b>Color</b>	colorless
<b>Odor</b>	alcohol-like
<b>Odor Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting point/ range</b>	-126 °C
<b>Boiling point/boiling range</b>	97 °C; ASTM D86
<b>Flash point</b>	25 °C; ASTM D 93; closed cup;

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<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Lower explosion limit</b>	2.1 %(V)
<b>Upper explosion limit</b>	19.2 %(V)
<b>Vapor pressure</b>	20.3 hPa; 20 °C
<b>Relative vapor density</b>	2.07(Air = 1.0)
<b>Density</b>	0.802 g/cm <sup>3</sup> ; 20 °C; ASTM D4052
<b>Water solubility</b>	completely soluble
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity, kinematic</b>	2.24 mm <sup>2</sup> /s; 20 °C; ASTM D 445

#### 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 polymerization 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 : > 5,000 mg/kg; OECD Test Guideline 401; (literature value)
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	Based on available data, the classification criteria are not met.
<b>Acute inhalation toxicity</b>	propan-1-ol: LC50 Rat: 4 h; > 20 mg/l; OECD Test Guideline 403; (literature value), Based on available data, the classification criteria are not met.
<b>Acute dermal toxicity</b>	propan-1-ol: 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.
<b>Skin irritation</b>	propan-1-ol: Rabbit: No skin irritation; OECD Test Guideline 404 (literature value)
<b>Eye irritation</b>	propan-1-ol: Rabbit: Risk of serious damage to eyes. Category 1; OECD Test Guideline 405 (literature value)
<b>Sensitization</b>	propan-1-ol: Maximization Test; Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value), Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	propan-1-ol: The substance has shown not to be genotoxic, therefore it is not expected to have carcinogenic potential., (literature value)
<b>Mutagenicity</b>	propan-1-ol: In vitro tests did not show mutagenic effects; (literature value)
<b>Toxicity for reproduction</b>	propan-1-ol: 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

<b>Toxicity to fish</b>	propan-1-ol: semi-static test; Pimephales promelas (fathead minnow); 96 h; LC50; > 100 mg/l; OECD Test Guideline 203; (literature value)
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<b>Toxicity to daphnia and other aquatic invertebrates</b>	propan-1-ol: static test; Daphnia magna (Water flea); 48 h; EC50; > 100 mg/l(literature value)
<b>Toxicity to algae</b>	propan-1-ol: static test; Pseudokirchneriella subcapitata (microalgae)Growth rate; 48 h; EC50; > 100 mg/l; (literature value)
<b>Toxicity to bacteria</b>	propan-1-ol: static test; 3 h; IC50; > 1,000 mg/l; ; activated sludge, domestic; (literature value)
<b>Toxicity to fish</b>	propan-1-ol: No data available; The study is not necessary.
<b>Chronic toxicity in aquatic invertebrates</b>	propan-1-ol: NOEC; Daphnia magna; ; 21 dEC50; 68.3 mg/lreproduction rate; ; Fresh water; QSAR, (literature value)
<b>Toxicity for organisms in the soil</b>	propan-1-ol: The study is not necessary.; The substance does not pose a chronic hazard to soil organisms.
<b>Toxicity for terrestrial flora</b>	propan-1-ol: Triticum aestivm (wheat); 7 d; EC50; > 500 mg/kg; (literature value)
<b>Toxicity for other terrestrial non-mammalian fauna</b>	propan-1-ol: The study is not necessary., The product has low potential for bioaccumulation.
<b>Biodegradability</b>	propan-1-ol: aerobic; 70 %; 20 d; Readily biodegradable.; OECD Guideline 301 D; (literature value)
<b>Bioaccumulation</b>	propan-1-ol: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected., (literature value)
<b>Mobility in soil</b>	propan-1-ol: Highly mobile in soils Not expected to adsorb on soil.
<b>Results of PBT and vPvB assessment</b>	Not persistent, bioaccumulative, and toxic (PBT). Not very persistent and very bioaccumulative (vPvB).
<b>Results of PBT and vPvB assessment</b>	propan-1-ol: 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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### Other adverse effects

propan-1-ol:  
Additional ecological information unknown

## 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

### IMDG

UN number: 1274  
Class: 3



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

### SECTION 15. Regulatory information

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

<b>United States TSCA Inventory</b>	All chemical constituents are listed in: United States 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>Australia Inventory of Chemical Substances (AICS)</b>	All chemical constituents are listed in: Australia Inventory of Chemical Substances (AICS) (See chapter 3)
<b>New Zealand. Inventory of Chemical Substances</b>	All chemical constituents are listed in: New Zealand. Inventory of Chemical Substances (See chapter 3)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)

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### Japan. ISHL - Inventory of Chemical Substances

All chemical constituents are listed in: Japan. ISHL - Inventory of Chemical Substances (See chapter 3)

### Korea. Korean Existing Chemicals Inventory (KECI)

All chemical constituents are listed in: Korea. Korean 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. Inventory of Existing Chemical Substances in China (IECSC)

All chemical constituents are listed in: China. Inventory of Existing Chemical Substances in China (IECSC) (See chapter 3)

### Japan PRTR

This product complies with PRTR requirements.

### PRTR Ordinance number:

NA

## SECTION 16. Other information

### Full text of H-Statements

- H226 Flammable liquid and vapor.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.

### Industrial Safety and Health Act

- Dangerous or Harmful Substances whose name should be labelled and notified (Ordinance appended table 2-1780) "Propyl alcohol"
- Chemical substances that cause skin and other types of irritation (Ordinance article 594-2)
- Dangerous/Inflammable Substances (Attached Table 1-4 of Order).

### Fire Service Act

- Category IV inflammable liquids, Alcohols.  
(Article 2-7 of act, Appended table 1-4 of Act.)

### Ship Safety Act

- Inflammable liquids  
(Article 3 of Regulations for the carriage and storage of dangerous goods in ship, Appended table 1 of Regulation)



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### Civil Aeronautics Act

- Inflammable liquid  
(Article 194 of Order, Appended table 1 of Order)

### Act on Prevention of Marine Pollution and Marine Disaster

- Harmful liquid substance (Y Category)  
(Attached table 1 of Order)

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.