



## Safety Data Sheet

### n-Propanol

Version 1.13

Revision Date 16.02.2012

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

<b>Trade name</b>	<b>n-Propanol</b>
<b>Synonyms</b>	<b>n-Propanol, 1-Propanol, Hydroxypropane, 1-Propyl alcohol, Ethyl carbinol, n-Propan-1-ol, Propylic acid, n-Propyl alcohol</b>
<b>Product code</b>	<b>2044</b>
<b>Use</b>	Solvent, For industrial use only.
<b>Company</b>	Sasol Solvents A Division of Sasol Chemical Industries 2 Sturdee Avenue Rosebank 2196 Republic of South Africa
<b>Information (Product safety)</b>	<b>Telephone: +27 11 280 0000 Fax: +27 11 280 0198</b> <b>E-mail address <a href="mailto:msds.info@sasol.com">msds.info@sasol.com</a></b>
<b>Emergency telephone number</b>	Europe, Israel, Africa, Americas +44 (0)1235 239 670 Middle East, Arabic African countries +44 (0)1235 239 671 Asia Pacific +65 3158 1074 China +86 10 5100 3039 South Africa +27 (0)17 610 4444 Australia +61 2 9032 0460

#### 2. Hazards identification

##### Identification of the risks

R11	Highly flammable.
R41	Risk of serious damage to eyes.
R67	Vapours may cause drowsiness and dizziness.

#### 3. Composition/information on ingredients

##### Propan-1-ol; n-propanol

**Contents:** 99.90 %W/W

**CAS-No.** 71-23-8  
**Symbol(s)** F, Xi

**Index-No.** 603-003-00-0  
**R-phrase(s)** -R11 -R41 -R67

**EC-No.** 200-746-9

For the full text of the R-phrases mentioned in this Section, see Section 16.



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#### 4. First aid measures

<b>General advice</b>	<i>When symptoms persist or in all cases of doubt seek medical advice.</i>
<b>Inhalation</b>	<i>Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.</i>
<b>Skin contact</b>	<i>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.</i>
<b>Eye contact</b>	<i>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.</i>
<b>Ingestion</b>	<i>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.</i>

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#### 5. Firefighting measures

<b>Suitable extinguishing media</b>	<i>Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)</i>
<b>Extinguishing media which shall not be used for safety reasons</b>	<i>No information available.</i>
<b>Specific hazards during firefighting</b>	<i>Flash back possible over considerable distance.</i>
<b>Special protective equipment for firefighters</b>	<i>Wear self-contained breathing apparatus and protective suit.</i>
<b>Further information</b>	<i>Cool containers / tanks with water spray.</i>

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#### 6. Accidental release measures

<b>Personal precautions</b>	<i>Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.</i>
<b>Environmental precautions</b>	<i>Should not be released into the environment. Prevent further leakage or spillage if safe to do so.</i>
<b>Methods for cleaning up</b>	<i>Soak up with inert absorbent material and dispose of as hazardous waste.</i>



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## 7. Handling and storage

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### Handling

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

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Use explosion-proof equipment.

### Storage

**Requirements for storage areas and containers** Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

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## 8. Exposure controls/personal protection

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### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

#### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

### 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.

**Protective measures** Wear suitable protective equipment.



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#### 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 °C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	Alcohol-like
<b>pH</b>	7
<b>Melting point/range</b>	-126.2 °C
<b>Boiling point/boiling range</b>	97.2 °C
<b>Flash point</b>	26 °C; Closed cup
<b>Autoignition temperature</b>	371 °C
<b>Lower explosion limit</b>	2.1 %(V)
<b>Upper explosion limit</b>	13.5 %(V)
<b>Vapour pressure</b>	27.998 hPa; 25 °C
<b>Density</b>	0.805 g/cm <sup>3</sup>
<b>Water solubility</b>	Completely miscible
<b>Viscosity, dynamic</b>	2.170 mPa.s
<b>Relative vapour density</b>	2.1

#### 10. Stability and reactivity

<b>Materials to avoid</b>	Strong oxidizing agents, Incompatible with acids., Halogenated compounds
<b>Hazardous decomposition products</b>	Carbon oxides
<b>Hazardous reactions</b>	Hazardous polymerisation does not occur.

#### 11. Toxicological information

<b>Acute oral toxicity</b>	LD50 rat: 1,870 mg/kg; literature value
<b>Acute inhalation toxicity</b>	LC50 rat: 4,000 mg/l; ; 4 h; literature value
<b>Acute dermal toxicity</b>	LD50 rabbit: 4,060 mg/kg; literature value
<b>Skin irritation</b>	May irritate skin.
<b>Eye irritation</b>	slight irritation



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<b>Sensitisation</b>	No data available
<b>Carcinogenicity</b>	; No data available
<b>Reproductive toxicity</b>	This information is not available.
<b>Human experience: If inhaled</b>	Harmful by inhalation
<b>Human experience: In case of skin contact</b>	No human information is available.
<b>Human experience: In case of eye contact</b>	Irritating to eyes

## 12. Ecological information

### Ecotoxicity effects

<b>Toxicity to fish</b>	LC50 Pimephales promelas: 4,480 mg/l; 96 h; literature value
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## 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>Contaminated packaging</b>	Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning or puncture.

## 14. Transport information

<b>ADR</b>	UN number: 1274; Class: 3; Packaging group: III; F1; Description of the goods: n-PROPANOL
<b>RID</b>	UN number: 1274; Class: 3; Packaging group: III; F1; Description of the goods: n-PROPANOL
<b>ADNR</b>	UN number: 1274; Class: 3; Packaging group: III; F1; Description of the goods: PROPYL ALCOHOL, NORMAL
<b>IMDG</b>	UN number: 1274; Class: 3; EmS: F-E, S-D; Packaging group: III; Description of the goods: PROPANOL
<b>ICAO/IATA</b>	UN number : 1274; Class: 3; Packaging group: III; Description of the goods: n-Propanol



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## 15. Regulatory information

### Labelling



**Regulatory base**

67/548/EEC

**Symbol(s)**

F: Highly flammable  
Xi: Irritant

**R-phrases(s)**

R11: Highly flammable.  
R41: Risk of serious damage to eyes.  
R67: Vapours may cause drowsiness and dizziness.

**S-phrases(s)**

S 7: Keep container tightly closed.  
S16: Keep away from sources of ignition - No smoking.  
S24: Avoid contact with skin.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39: Wear eye/face protection.

## 16. Other information

*Full text of R-phrases referred to under sections 2 and 3*

R11                      Highly flammable.  
R41                      Risk of serious damage to eyes.  
R67                      Vapours may cause drowsiness and dizziness.



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*All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which the 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 the 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 as regards 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 the product.*

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*The MSDS was approved by: M. HUYSER*