



## Safety Data Sheet

### *n*-Propanol

Version 1.00

Revision Date 26.02.2010

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

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Trade name	<i>n</i> -Propanol
Synonyms	<i>n</i> -Propanol, 1-Propanol, Hydroxypropane, 1-Propyl alcohol, Ethyl carbinol, <i>n</i> -Propan-1-ol, <i>n</i> -Propyl alcohol
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	Asia Pacific	+65 633 44 177
	China	+86 10 5100 3039
	South Africa	+27 (0)17 610 4444



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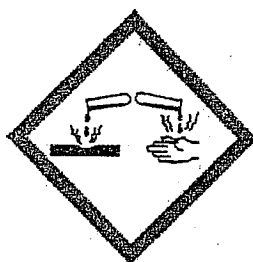
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## 2. Hazards identification

### GHS-Classification

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<b>Signal word</b>	Danger
<b>Hazard class</b>	Flammable liquids Acute toxicity Specific target organ toxicity - single exposure Eye damage/irritation Aspiration toxicity
	Category 2 Category 4 Category 3 Category 1 Category 2
<b>Hazard statements</b>	H225: Highly flammable liquid and vapour. H302: Harmful if swallowed. H305: May be harmful if swallowed and enters airways. H318: Causes serious eye damage. H336: May cause drowsiness or dizziness.
<b>Precautionary Statement: Prevention</b>	P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233: Keep container tightly closed. P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P331: Do NOT induce vomiting. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P350: Gently wash with plenty of soap and water. P313: Get medical advice/attention.

### 3. Composition/information on ingredients

propan-1-ol; n-propanol

Contents: 99.90 %W/W

CAS-No. 71-23-8

Index-No. 603-003-00-0

EC-No. 200-746-9

Symbol(s): Flammable, Corrosion, Exclamation Mark, Health Hazard. H-Statements: H225, H302, H305, H318, H336

For the full text of the H-Statements mentioned in this Section, see Section 2.

### 4. First aid measures

<b>General advice</b>	When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. 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



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<b>Eye contact</b>	contaminated clothing before re-use. If skin irritation persists, call a physician. 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.

## 5. Fire-fighting measures

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

## 6. Accidental release measures

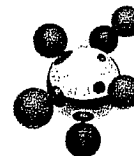
<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning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

## 7. Handling and storage

### Handling

<b>Safe handling advice</b>	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.
<b>Advice on protection against fire and explosion</b>	Keep away from heat and sources of ignition. Use explosion-proof equipment.

### Storage



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**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

Components with workplace control parameters

### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
1-PROPANOL	TWA TWA	491 mg/m <sup>3</sup> 200 ppm	12 2003 12 2003	Taiwan OELs Taiwan OELs

### 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  
unsuitable gloves  
Material: Polyvinylchloride, leather, nitrile rubber/nitrile latex,  
natural rubber/natural latex

**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.

## 9. Physical and chemical properties

Form	liquid
state of matter	liquid; at 20 °C; 1,013 hPa
Colour	colourless
Odour	alcohol-like
pH	7



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Melting point/range	-126.2 °C
Boiling point/boiling range	97.2 °C
Flash point	26 °C; closed cup
Autoignition temperature	371 °C
Lower explosion limit	2.1 %(V)
Upper explosion limit	13.5 %(V)
Vapour pressure	27.998 hPa; 25 °C
Density	0.805 g/cm <sup>3</sup>
Water solubility	completely miscible
Viscosity, dynamic	2.170 mPa.s
Relative vapour density	2.1

#### 10. Stability and reactivity

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

#### 11. Toxicological information

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Acute oral toxicity	LD50 rat: 1,870 mg/kg; literature value
Acute inhalation toxicity	LC50 rat: 4,000 mg/l; ; 4 h; literature value
Acute dermal toxicity	LD50 rabbit: 4,060 mg/kg; literature value

#### 12. Ecological information

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##### Ecotoxicity effects

Toxicity to fish	LC50 Pimephales promelas: 4,480 mg/l; 96 h; literature value
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#### 13. Disposal considerations

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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.
Contaminated packaging	Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning



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or puncture.

#### 14. Transport information

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

#### 15. Regulatory information

Regulatory base	Taiwan CLA GHS Classification List (Council of Labour Affairs, GHS documents, July 2009)
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#### 16. Other information

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSI Z400.1.1993. 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.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.

The MSDS was created by: MOTLATSI  
The MSDS was approved by: R. Preston