



Printing date 03.08.2006

Reviewed on 24.07.2006

**1 Identification of the substance/preparation and of the company/undertaking**

- **Product details**
- **Trade name:** *n Propanol*
- **Manufacturer/Supplier:**  
Petrochem Middle East FZE  
PO Box 17028,  
Jebel Ali Free Zone  
Dubai, UAE  
Ph +971 4 8839222; Fax +971 4 8834133
- **Further information obtainable from:** Product safety department.

**2 Composition/information on ingredients**

- **Chemical characterization:**
- **CAS No. Description**  
71-23-8 propan-1-ol
- **Identification number(s)**
- **EINECS Number:** 200-746-9
- **EU Number:** 603-003-00-0

**3 Hazards identification**

- **Hazard description:**



*Xi Irritant*  
*F Highly flammable*

- **Information concerning particular hazards for human and environment:**  
*R 11 Highly flammable.*  
*R 41 Risk of serious damage to eyes.*  
*R 67 Vapours may cause drowsiness and dizziness.*

**4 First aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

**5 Fire-fighting measures**

- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
*Dilute with plenty of water.*

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Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

**7 Handling and storage****Handling:**

**Information for safe handling:** No special requirement

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store in a cool location.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**8 Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:****n-propanol**

PEL (USA)	500 mg/m <sup>3</sup> , 200 ppm
REL (USA)	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
	Skin
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
WEL (Great Britain)	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm

**Additional information:** The lists valid during the making were used as basis.

**Personal protective equipment:****General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

**Respiratory protection:** Not required.

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

**9 Physical and chemical properties**· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Alcohol-like

· **Change in condition**

<b>Melting point/Melting range:</b>	-127°C
<b>Boiling point/Boiling range:</b>	96.5-97.5°C

· **Flash point:** 23°C· **Ignition temperature:** 360°C· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	13.5 Vol %

· **Vapour pressure at 20°C:** 19 hPa· **Density at 20°C:** 0.8035 g/cm<sup>3</sup>· **Solubility in / Miscibility with water at 20°C:** 1.000 g/l· **pH-value (200 g/l) at 20°C:** 7· **Viscosity:**

<b>Dynamic at 20°C:</b>	2.3 mPas
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**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Dangerous reactions** No dangerous reactions known.· **Dangerous decomposition products:** No dangerous decomposition products known.**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

Oral	LD50	1870 mg/kg (rat)
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Dermal LD50 5040 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

**12 Ecological information**

- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**14 Transport information**

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1274
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1274 PROPANOL (PROPYL ALCOHOL, NORMAL)

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1274
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D

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**· Proper shipping name:** PROPANOL (PROPYL ALCOHOL, NORMAL)**· Air transport ICAO-TI and IATA-DGR:****· ICAO/IATA Class:** 3**· UN/ID Number:** 1274**· Label:** 3**· Packaging group:** III**· Proper shipping name:** PROPANOL (PROPYL ALCOHOL, NORMAL)

### 15 Regulatory information

**· Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**· Code letter and hazard designation of product:**

*Xi Irritant*

*F Highly flammable*

**· Risk phrases:**

*11 Highly flammable.*

*41 Risk of serious damage to eyes.*

*67 Vapours may cause drowsiness and dizziness.*

**· Safety phrases:**

*2 Keep out of the reach of children.*

*7 Keep container tightly closed.*

*16 Keep away from sources of ignition - No smoking.*

*24 Avoid contact with skin.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing MSDS:** Product safety department.**· Contact:** Terminal Manager