



ACP

Asiatic Chemicals Pakistan

Building the Partnership, it's Asiatic Business Principle!

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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:**
CO₂, 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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UAE

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

Form:	Fluid
Colour:	Colourless
Odour:	Alcohol-like

· **Change in condition**

Melting point/Melting range:	-127°C
Boiling point/Boiling range:	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:**

Lower:	2.1 Vol %
Upper:	13.5 Vol %

· **Vapour pressure at 20°C:** 19 hPa

· **Density at 20°C:** 0.8035 g/cm³

· **Solubility in / Miscibility with water at 20°C:** 1.000 g/l

· **pH-value (200 g/l) at 20°C:** 7

· **Viscosity:**

Dynamic at 20°C: 2.3 mPas

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)
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- **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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Material Safety Data Sheet

According to 91/155 EEC

Trade name: *n Propanol*

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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