



Material Safety Data Sheet

1. Identification of Substances/Preparation and of the Company/undertaking.

- **Product details**
- **Trade name: n Propanol**
- **Manufacturer/Supplier:**
Jay Overseas Pvt.Ltd.
402, Shopper Plaza-IV,
Opp.Lal Bunglow,
C.G.Road,Navrangpura,
Ahmedabad-380 009
Ph:+91 79-66622278 to 92 Fax:+91 79-66622280 /90
E-Mail Id: info@jayoverseas.com
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.
- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Dilute with plenty of water.
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 & 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 Control/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/m³, 200 ppm

REL (USA)----- Short-term value: 625 mg/m³, 250 ppm
Long-term value: 500 mg/m³, 200 ppm
Skin

TLV (USA)----- Short-term value: 984 mg/m³, 400 ppm
Long-term value: 492 mg/m³, 200 ppm

WEL (Great Britain)----- Short-term value: 625 mg/m³, 250 ppm
Long-term value: 500 mg/m³, 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.

· 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)

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 Consideration.

· 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
- 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. Regularity 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.