

Propan-1-ol
L-F-T
Danger

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

Ref. n° : 102 135
 Trade name : Propan-1-ol
 Company identification : JEULIN
 T: 02 32 29 40 50 - F: 02 32 29 43 99
 468, Rue Jacques Monod - CS 21900
 27019 EVREUX CEDEX - France
 e-mail : support@jeulin.fr
 Emergency phone nr : 01 45 42 59 59
 Use : laboratory use

SECTION 2 Hazards identification

• Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2)
 • Health hazards : Serious eye damage - Category 1 - Danger
 Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3)
 Classification EC 67/548 or EC 1999/45 : F; R11
 R67
 Xi; R41

Label elements

• Hazard pictograms



• Signal words : Danger
 • Hazard statements : H225 : Highly flammable liquid and vapour.
 H318 : Causes serious eye damage.
 H336 : May cause drowsiness or dizziness.

• Precautionary statements

- General : P102 : Keep out of reach of children.
 - Prevention : P210 : Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 : Keep container tightly closed. P280 : Wear protective gloves/protective clothing/eye protection/face protection. P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Response : P305+P351+P338+P310+P321 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Specific treatment.
- : Irritant.
 Highly flammable.

Symbol(s)



R Phrase(s)

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

S Phrase(s)

: S2 : Keep out of the reach of children.
 S9 : Keep container in a well-ventilated place.
 S16 : Keep away from sources of ignition - No smoking.
 S18 : Handle and open container with care.



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SECTION 2 Hazards identification (continued)

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 : Wear eye/face protection.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.

SECTION 3 Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EC	EC index	REACH	CERTIFICATE
Propan-1-ol	: 100 ca %	71-23-8	200-746-9	603-003-00-0	----	F; R11 R67 Xi; R41 ----- Flam. Liq. 2 (H225) Eye Dam 1 (H318) STOT SE 3 (H336)

SECTION 4. First aid measures

- Inhalation : Provide oxygen and/or ventilation assistance, if needed.
If breathing is difficult, give oxygen.
Assure fresh air breathing.
If you feel unwell, seek medical advice.
- Skin contact : Wash skin thoroughly with mild soap and water.
Remove contaminated clothing and shoes.
- Eye contact : Contact ophthalmologist immediately.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Do not induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious).
Seek medical attention immediately.

SECTION 5. Fire-fighting measures

- Prevention : Take precautionary measures against static discharges.
No naked lights. No smoking.
Keep away from heat.
- Extinguishing media
- Suitable : Foam.
Powder.
Carbon dioxide.
- Special exposure hazards : Under fire conditions, hazardous fumes will be present.
Vapour mixes readily with air, forming explosive mixtures.
Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Avoid (reject) fire-fighting water to enter environment.

SECTION 6. Accidental release measures

- Environmental precautions : Prevent entry to sewers and public waters.
- After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. (ex: Vermiculite JEULIN réf. 150 039, absorbant pour liquides JEULIN réf. 150 027).
Flush/dilute residue with water.

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SECTION 7. Handling and storage

- Precautions in handling and storage** : Use special care to avoid static electric charges.
Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Handling** : Do not breathe gas, fumes, vapour or spray.
Wear suitable protective clothing.
Avoid all unnecessary exposure.
- Storage** : Close container tightly after use.
Store in dry, cool, well-ventilated area.
Keep away from heat. (+15°C / +25°C)

SECTION 8. Exposure controls/personal protection

- Personal protection** : Avoid all unnecessary exposure.
- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection** : Wear suitable gloves resistant to chemical penetration.
- Skin protection** : Wear suitable protective clothing.
- Eye protection** : Chemical goggles or safety glasses.
- Others** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Provide good ventilation in process area to prevent formation of vapour.
- Exposure controls**
- France** : VME [mg/m³] : 500
VME [ppm] : 200

SECTION 9. Physical and chemical properties

- Chemical name** : Propan-1-ol
- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Alcohol.
- pH value** : 20°C, 200g/L H₂O: 8,5
- Molecular weight** : 60,10
- Melting point [°C]** : -126,5
- Initial boiling point [°C]** : 97,1
- Density** : (20 °C) : 0,803
- Vapour pressure [hPa]** : (20 °C) : 19,4
- Relative vapour density (air=1)** : 2,1
- Viscosity at 20°C [mPa.s]** : 2,3
- Solubility in** : Organic solvents. : soluble
Water. (20 °C) : soluble
- Flash point [°C]** : 15
- Auto-ignition temperature [°C]** : 371 à 412
- Explosion limits**
- Explosion limits - lower [%]** : 2,1
- Explosion limits - upper [%]** : 13,5
- Log P octanol / water at 20°C** : 0,25



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SECTION 10. Stability and reactivity

Conditions to avoid	: Sparks. Open flame. Heat.
Materials to avoid	: Strong reducing agents. (Métaux alcalins, métaux alcalinoterreux...). Strong oxidizers. (Peroxydes, chromates, dichromates, chlorates, perchlorates, permanganates, nitrates, acide nitrique concentré, acide sulfurique concentré...). Oxidizing.
Hazardous reactions	: Combustible. Fire/explosion hazard.
Hazardous decomposition products	: Carbon monoxide.
Hazardous properties	: Vapour mixes readily with air, forming explosive mixtures.

SECTION 11. Toxicological information

Acute toxicity	
- Inhalation	: Respiratory tract irritation. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
- Dermal	: May be irritating to skin.
- Ocular	: Severe eye irritant. Direct contact may result in corneal injury.
- Ingestion	: May cause irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.
- Other	: Chronic exposure causes liver and kidney damages. This material or its emissions may affect the nervous system.
Rat oral LD50 [mg/kg]	: 1,9-7g/kg - CL50 inhal. : 4000 ppm/4h-16000 ppm/1h
Rabbit dermal LD50 [mg/kg]	: 4060 mg/kg
Dermal irritation (rabbit)	: Not irritant.
Eyes irritation (rabbit)	: Severe eye irritant. Destruction of eye tissue.
Mucous membrane irritation (rabbit)	: No data available.
Chronic toxicity	: Not expected to be toxic.
Experiences in humans	: DLo (orale) : 5700 mg/kg.
Other toxicological information	: Other toxic properties can not be excluded. Observe all precautions for handling chemicals. For more toxicological informations, read the INRS data sheet # : 211.

SECTION 12. Ecological information

Ecological effects information	: Avoid release to the environment. Bactéries : Photobacterium phosphoreum CE50 : 17700 mg/L/5 min (test microtox). Algues : Selenastrum capricornutum Clo : 1150 mg/L/48h. Daphnies : Daphnia magna : CE50 :3642 mg/L/48h. Poissons : P. Promelas CL50 : 46300 mg/L/96h
ThOD (gO2/g)	: 2,4
COD	: (g/g) : 2,23
Bioaccumulative potential	: Log P(o/w) < 1: Bioaccumulation pas à prévoir.
Biodegradation [%]	: 75 %/ 20 j - Biodégradabilité facile.



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SECTION 13. Disposal considerations

- Disposal** : Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes.
Do not re-use empty container.
Dispose in a safe manner in accordance with local/national regulations.
Avoid release to the environment.
- Waste-disposal procedures** : Refer to the MSDS before handling or disposing.

SECTION 14. Transport information

- Proper shipping name : 1274 n-PROPANOL (ALCOOL PROPYLIQUE NORMAL), 3, II, ADR
- UN No. : 1274
- H.I. nr : 33

Land transport

- ADR/RID : Class : 3
Group : II

Sea transport

- GGVE/GGVSee class
- IMO-IMDG code : UN 1274 n-Propanol
- Class : 3
- Packing group : II

Air transport

- ICAO/IATA : UN 1274 n-Propanol
- IATA - Class or division : 3
IATA Packing group : II

SECTION 15. Regulatory information

- Other** : None.

SECTION 16. Other information

Further information

The contents and format of this MSDS are in accordance with Regulation (EC) N°1907/2006.

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