

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 20.07.2022

Version number 7.0

Revision: 20.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** 1-Propanol, HPLC grade**Article number:** AL0438**CAS Number:**

71-23-8

EC number:

200-746-9

Index number:

603-003-00-0

Registration number 01-2119486761-29-XXXX**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)**Process category**

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

Application of the substance / the preparation: Laboratory reagent**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa

08181 Sentmenat (Barcelona) SPAIN

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Internet Web Site: www.scharlab.com

Regional representation:

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Further information obtainable from: technical department**1.4 Emergency telephone number:**

Please contact the regional Scharlab distributor/dealer in your country

During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

Acute Tox. 4 H302 Harmful if swallowed.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02



GHS05



GHS07

Signal word Danger**Hazard statements**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 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/doctor.

P310 In case of fire: Use for extinction: CO₂, powder or water spray.

P370+P378 Store locked up.

P405 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.1 Chemical characterisation: Substances****CAS No. Description**

71-23-8 propan-1-ol

Identification number(s)**EC number:** 200-746-9**Index number:** 603-003-00-0**SECTION 4: First aid measures****4.1 Description of first aid measures****After inhalation:**

Separate casualty from the danger zone. Place the affected in the most comfortable position and prot  jasele cold.

Supply fresh air; consult doctor in case of complaints.

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- **After skin contact:**
Generally the product does not irritate the skin.
Immediately rinse with water.
Seek medical treatment.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Dizziness
Nausea
Gastric or intestinal disorders
Headache
- **4.3 Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.
If swallowed, gastric irrigation with added, activated carbon.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:**
In the work of extinction it is necessary to provide respiratory protection and full chemical protective clothing.
Wear self-contained respiratory protective device.
Wear fully protective suit.
Cool exposed containers with water spray or mist.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Keep people at a distance and stay on the windward side.
Ensure adequate ventilation
Keep away from ignition sources.
Evacuate and restrict access.
Isolate leaks as long as it does not pose an additional risk to the people who perform this function.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**
Send for recovery or disposal in suitable receptacles.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Wear an individual protective equipment.
Wear chemically sealed goggles and / or face shield.
Avoid contact with eyes and skin.
Do not eat, drink or smoke during use.
Wash hands after any manipulation.
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Vapors are heavier than air and may spread along floors.
Fumes can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated place.
Store only in the original receptacle.
Store at temperatures not exceeding 38°C
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Do not store together with acids.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

71-23-8 propan-1-ol

WEL Short-term value: 625 mg/m³, 250 ppm
Long-term value: 500 mg/m³, 200 ppm
Sk

- **DNELs**
DNEL worker, acute. Systematic effects: Inhalative - 1723 mg/m³
DNEL worker, cronic. Systematic effects: Inhalative - 268 mg/m³
DNEL worker, cronic. Systematic effects: Dermic - 136 mg/kg body weight
DNEL consumer, acute. Systematic effects: Inhalative - 1036 mg/m³
DNEL consumer, prolonged. Systematic effects:
 - Inhalative: 80 mg/m³
 - Dermic: 81 mg/kg body weight

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- Oral: 61 mg/kg body weight
- **PNECs**
 - PNEC (Fresh water): 10 mg/L
 - PNEC (Sea water): 1 mg/L
 - PNEC (Freshwater sediments): 22.8 mg/kg
 - PNEC (Seawater sediments): 2.28 mg/kg
 - PNEC (Soil): 2.2 mg/kg
 - PNEC (Residual water depuration system): 96 mg/kg
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **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

SECTION 9: Physical and chemical properties• **9.1 Information on basic physical and chemical properties**• **General Information**• **Appearance:****Form:**

Fluid

Colour:

Colourless

• **Odour:**

Alcohol-like

• **Odour threshold:**

Not determined.

• **pH-value:**

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• **Change in condition****Melting point/freezing point:**

-127 °C

Initial boiling point and boiling range: 97 °C

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- **Flash point:** 15 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 395 °C
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Not determined.
- **Explosive properties:** 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
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water at 20 °C:** 1 g/l
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C:** 2.21 mPas
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air.
- **10.4 Conditions to avoid** Heat, open flames and sparks
- **10.5 Incompatible materials:**
 - Strong acids
 - Strong oxidizing agents.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Harmful if swallowed.
- **LD/LC50 values relevant for classification:**

Oral	LD50	>1870 mg/kg (rat)
Dermal	LD50	4032 mg/kg (rabbit)
Inhalative	LC50/4 h	>33.8 mg/l (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Toxicity to fish
LC50 - Pimephales promelas (Fathead piscardo) - 4555 mg/L - 96 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (large sea flea) - 3644 mg/L - 48 h
Toxicity to algae
CE50 - Pseudokirchneriella subcapitata (Green algae) - 9170 mg/L (48h)
Toxicity to bacteria
EC50 static test - Activated sludge - >1000 mg/L - 3 min
- **12.2 Persistence and degradability**
Biodegradation = 75 %
Exposure time: 20 d
Easily biodegradable
- **12.3 Bioaccumulative potential**
log Pow: 0.2 (20°C)
Bioconcentration factor (BCF): 0.88
- **12.4 Mobility in soil**
Log Koc: 0.633 (20°C)
Surface tension: 70.8 mN/m
- **Additional 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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be specially treated adhering to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product. Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> • 14.1 UN-Number • ADR, IMDG, IATA • 14.2 UN proper shipping name • ADR • IMDG, IATA • 14.3 Transport hazard class(es) • ADR, IMDG, IATA | <p>UN1274</p> <p>1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL)</p> <p>n-PROPANOL (PROPYL ALCOHOL, NORMAL)</p> |
|---|--|
-
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<ul style="list-style-type: none"> • Class • Label • 14.4 Packing group • ADR, IMDG, IATA • 14.5 Environmental hazards: • Marine pollutant: • 14.6 Special precautions for user • Hazard identification number (Kemler code): • EMS Number: • Stowage Category • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Transport/Additional information: 	<p>3 Flammable liquids.</p> <p>3</p> <p>II</p> <p>No</p> <p>Warning: Flammable liquids.</p> <p>30</p> <p>F-E,S-D</p> <p>B</p> <p>Not applicable.</p>
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-
- | | |
|--|---|
| <ul style="list-style-type: none"> • ADR • Limited quantities (LQ) • Transport category • Tunnel restriction code • UN "Model Regulation": | <p>1L</p> <p>2</p> <p>D/E</p> <p>UN 1274 N-PROPANOL (PROPYL ALCOHOL, NORMAL), 3, II</p> |
|--|---|

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I -**
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t

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- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** product safety department

- **Contact:** msds@scharlab.com

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1