

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

Printing date 01.07.2016

Version number 4

Revision: 01.07.2016

* **SECTION 1: Identification of the substance/mixture and of the company/undertaking**- **Creation date / First edition:** 15.08.1994- **1.1 Product identifier**- **Trade name** propan-2-ol- **Article number:** 101123eng- **CAS Number:**

67-63-0

- **EC number:**

200-661-7

- **Index number:**

603-117-00-0

- **Registration number** 01-2119457558-25- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Application of the substance / the mixture**

chemical substance / raw material

Detailed authorized uses can be viewed via the customer login our website www.cvh.de- **1.3 Details of the supplier of the safety data sheet**- **Manufacturer/Supplier:**

CVH Chemie Vertrieb GmbH & Co Hannover KG

Podbielskistraße 22

30163 Hannover

Telefon: 0511 / 96535-0

CVH Chemie Vertrieb GmbH & Co Hannover KG

Niederlassung Hamburg

Telefon: 040 / 733603-0

CVM Chemie-Vertrieb Magdeburg GmbH & Co KG

Telefon: 03 91 / 50 86 200

CVB Albert Carl GmbH & Co KG

Telefon: 030 / 6289320

- **Informing department:**

Produkt safety department: Phone : 0049 (0)511/965 35-127, Fax: -249

Safety data sheet: : Petra.Rother@cvh.de- **1.4 Emergency telephone number:**

From 8.00am to 4.00pm contact CVH.

At other times: Contact next hospital.

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

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

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **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

GHS07

- **Signal word** Danger

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- Hazard statements*H225 Highly flammable liquid and vapour.**H319 Causes serious eye irritation.**H336 May cause drowsiness or dizziness.***- Precautionary statements***P280 Wear protective gloves/protective clothing/eye protection/face protection.**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P243 Take precautionary measures against static discharge.**P261 Avoid breathing mist/vapours/spray.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P312 Call a POISON CENTER/doctor if you feel unwell.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.***- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****- 3.1 Substances****- CAS No. Designation***67-63-0 propan-2-ol***- Identification number(s)****- EC number:** 200-661-7**- Index number:** 603-117-00-0**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- After inhaling***Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.**If the patient is unconscious then use the recovery position for transportation.***- After skin contact***Wash off thoroughly with plenty of water.**Remove any soiled or saturated clothing.**If any skin irritation continues, consult a doctor.***- After eye contact***Rinse opened eye for several minutes under running water.**Protect the un-injured eye.**Remove contact lenses***- After swallowing***Rinse mouth out with plenty of water.**Do NOT induce vomiting. Drink plenty of water and ensure a supply of fresh air. Consult a doctor immediately.***- 4.2 Most important symptoms and effects, both acute and delayed***Headache**Disziness**Sickness***- 4.3 Indication of any immediate medical attention and special treatment needed***If swallowed or in case of vomiting, danger of entering the lungs***SECTION 5: Firefighting measures****- 5.1 Extinguishing media****- Suitable extinguishing agents***CO₂, extinguishing powder or water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.**Avoid any flammable liquids.*

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
In a fire the following can be released:
Carbon monoxide (CO)
irritating fumes
Combustion gases of organic substances are considered respiratory poisons
Fumes are heavier than air and can spread out along the floor. Ignition is possible over a great distance.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear full-protectiv chlothing and self-contained breathing apperatus.
- **Additional information**
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**
Wear protective clothing. Keep unprotected people away.
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case plenty of product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Use a liquid-binding material and dispose of according to regulations.
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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep containers tightly sealed.
Store in cool, dry conditions in well sealed containers.
Ensure good ventilation/suction at the workplace.
Avoid contact with eyes and skin.
The usual precautionary measures should be adhered to in handling the chemicals.
- **Information about protection against explosions and fires:**
Initiate measures against electrostatic charging. Keep away from all ignition sources. Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Do not store together with oxidising and self-ignition materials.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- **Storage class LGK 3 (Germany TRGS 510)**
- **7.3 Specific end use(s)** No further relevant information available.

* **SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**

- DNELs		
Oral	long-term, Systemic effects	26 mg/kg (general population)
Dermal	long-term, systemic effects	888 mg/kg (workers)
		319 mg/kg (general population)
Inhalative	long-term, systemic effects	500 mg/m ³ (workers)

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	89 mg/m ³ (general population)
- PNECs	
Wasser (Süßwasser)	140.9 mg/l (.)
Wasser (Meerwasser)	140.9 mg/l (.)
Wasser (sporadische Freisetzung)	140.9 mg/l (.)
Sediment (Süßwasser)	552 mg/kg dwt. (.)
Sediment (Meerwasser)	552 mg/kg dwt. (.)
Boden	28 mg/kg dwt. (.)
Abwasserreinigungsanlage (STP)	2251 mg/l (.)

- 8.2 Exposure controls**- Personal protective equipment****- General protective and hygienic measures** Wash hands during breaks and at the end of the work.**- Breathing equipment:**

If the concentrations in the air exceed the guidelines despite technical precautions, then either use an extraction system or wear breathing protection.

Gas filter type A

- Protection of hands: Solvent resistant gloves.**- Material of gloves**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.5 mm**- Penetration time of glove material**

The exact penetration time which should be observed can be given by the glove manufacturer.

Please refer to the manufacturer's instructions regarding penetration time.

- Eye protection: Safety glasses with side-shields**- Body protection:** Body protection must be chosen by activity and exposure**SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Fluid**Colour:** Clear**- Smell:** Alcohol-like**- pH-value:** Not determined.**- Melting point/Melting range:** -89.5 °C**- Boiling point/Boiling range:** 82 °C**- Flash point:** 12 °C**- Ignition temperature:** 425 °C**- Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.**- Critical values for explosion:****Lower:** 2 Vol %**Upper:** 12 Vol %**- Steam pressure at 20 °C:** 48 hPa**- Density at 20 °C** 0.785 g/cm³**- Solubility in / Miscibility with****Water:** Fully miscible**- Segregation coefficient (n-octanole/water):** 0.05 log Kow

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<ul style="list-style-type: none"> - Viscosity: <li style="padding-left: 20px;"><i>dynamic at 20 °C:</i> <li style="padding-left: 20px;"><i>kinematic:</i> - 9.2 Other information 	<p>2 mPas</p> <p>Not determined.</p> <p>The physical properties given are standard values. For exact data please refer to the product specification.</p>
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Can be distilled without decomposing at normal pressure
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air
- **10.4 Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources.
- **10.5 Incompatible materials:**
 - Strong oxidizing agents.
 - Strong acids
 - Amines
 - Water
 - aldehydes
 - alkanolamines
- **10.6 Hazardous decomposition products:**
 - In case of fire can be released:
 - No dangerous decomposition products known if used according to the specifications.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	4750 mg/kg (rat) (OECD 401)
Dermal	LD50	12800 mg/kg (rab) (OECD 402)
Inhalative	LC50/4 h	>25 mg/l (rat) (OECD 403)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
 - Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**
 - May cause drowsiness or dizziness.
- **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:**

LD50	>100 mg/l (fis)
EC50	>100 mg/l (bacteria)
	>100 mg/l (dap)
IC 50	>100 mg/l (alg)

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- **12.2 Persistence and degradability** The product is easily biodegradable.
- **12.3 Bioaccumulative potential** Bioaccumulation is not expected
- **12.4 Mobility in soil** Dissolves in water and thus remains mobile
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies 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 not be disposed together with household waste. Do not allow product to reach sewage system.
Must be specially treated under adherence to official regulations.
- **European waste catalogue**
The waste disposal key numbers are organized according to branch and process classification in the European waste catalogue.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Packaging can be reused or recycled after cleaning.
Do not pierce, cut or weld uncleaned containers.

* **SECTION 14: Transport information**

- 14.1 UN-Number - ADR, IMDG, IATA	UN1219
- 14.2 UN proper shipping name - IMDG - IATA	ISOPROPANOL (ISOPROPYL ALCOHOL) Isopropanol
- 14.3 Transport hazard class(es) - ADR - Class - Label	3 (F1) Flammable liquids. 3
- IMDG, IATA - Class - Label	3 Flammable liquids. 3
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user - Kemler Number: - EMS Number: - Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

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- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category	2
- Tunnel restriction code	D/E
- Classification code	
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

* **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Australian Inventory of Chemical Substances
- National regulations
- Information about limitation of use:
legal protection of working mothers and concerning young persons must be observed.
- Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: Quality protection department.
- Abbreviations and acronyms:
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- * Data compared to the previous version altered.