

Ingestion : Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Special protective equipment for fire-fighters : No special precautions required.

Suitable extinguishing media : Water, Dry powder, Alcohol-resistant foam, Carbon dioxide (CO₂)

Extinguishing media which shall not be used for safety reasons : No information available.

Specific risk from the substance or the product itself, its combustion products or evolved gases : **Vapours may form explosive mixtures with air.**

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions : No special environmental precautions required.

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Safe handling advice : Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. The hot product gives off combustible vapours.

Storage

Requirements for storage areas and containers : **Store at room temperature in the original container. Do not store at temperatures above 30°C.**

Further information : Keep away from direct sunlight. Keep container tightly closed.

Advice on common storage : **Keep away from food and drink. Do not store together with oxidising agents.**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Basis
Ethanol	64-17-5	AGW: 960 mg/m ³ AGW: 500 ppm	TRGS 900

Personal protective equipment

Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (Layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 Min., Layer thickness: 0,40 mm) or butyl rubber gloves e.g.

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Butoject (>480 Min., Layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Eye protection : Tightly fitting safety goggles
Hygiene measures : Keep away from food and drink.
Protective measures : Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : colourless
Odour : alcoholic

Other data

solidification range : < -5 °C

Initial boiling point : ca. 80 °C

Flash point : 27 °C
Method: DIN 51755 Part 1

Ignition temperature : Propan-1-ol
412 °C

Upper explosion limit : Propan-1-ol
17,5 %(V)

Lower explosion limit : Propan-1-ol
2,1 %(V)

Vapour pressure : ca.50 hPa at 20 °C

Density : 0,890 g/cm³ at 20 °C

Water solubility : at 20 °C
in all proportions

pH : ca.7 at 1.000 g/l (20 °C)

flow time : < 15 s at 20 °C
Method: DIN 53211

10. STABILITY AND REACTIVITY

Hazardous reactions : Vapours may form explosive mixture with air.

Hazardous decomposition products : None reasonably foreseeable.

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 4000 mg/kg Method: calculated
Further information	: No data is available on the product itself. The classification was made according to the calculation procedure of the Preparations Directive. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

Biodegradability	: Readily biodegradable. Method: OECD 301D / EEC 84/449 C6
Toxicity to bacteria	: EC50 68750 mg/l Method: OECD 209 Remarks: This declaration has been derived from products of similar composition.
Chemical Oxygen Demand (COD)	: 13000 mg/l Test substance: 1% solution
Further information	: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Product	: Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging	: Take empty packaging to the recycling plant.
Waste key for the unused product	: EWC 070604
Waste key for the unused product(Group)	: Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. TRANSPORT INFORMATION

ADR : UN-Number 1987



Class 3
Classification Code F1

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	Packaging group	III		
	ADR/RID-Labels	3 + 11		
	ICAO-Labels	30		
	Description of the goods	ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)		
IMDG	: UN-Number	1987		
	Class	3		
	EmS	F-E, S-D		
	Packaging group	III		
	Marine pollutant	--		
	Description of the goods	ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)		
IATA	: UN-Number	1987		
	Class	3		
	Packaging group	III		
	Description of the goods	ALCOHOLS, N.O.S. (Ethanol, Propan-1-ol)		

15. REGULATORY INFORMATION

General advice	:	In the EU, this product falls under the Directive on biocide products 98/8/EC. The product is classified and labelled in accordance with EC directives or respective national laws.	
Symbol	:		
		Xi Irritant	
R-phrase(s)	:	R10 R41 R67	Flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.
S-phrase(s)	:	S23 S26 S35 S39 S51	Do not breathe spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of in a safe way. Wear eye/face protection. Use only in well-ventilated areas.
Further information	:	Use biocides safely. Always read the label and product information before use.	

National legislation

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Occupational Illnesses (R-463-3, France) : **Health effects caused by professional use of liquid organic solvents (indicated in the table).**

Volatile organic compounds (VOC) content : 60 %
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

VOC-Content : 0,60 kg/kg
Switzerland. VOC Ordinance, Annex II (Products)

Switzerland : Registration number: CHZN0740

16. OTHER INFORMATION

Application : Information on uses can be found in a separate preparation / product brochure.

Text of R-phrases mentioned in Section 3

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

The information given is only of use for possible safety requirements and is based on our actual knowledge. This information does not guarantee any properties. It is the responsibility of the receiver / user of our products to follow existing laws and regulations.

Changes compared with the previous edition!!!