

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

Product identifier

Trade name: **EPIGLU®**

Reference-no. / Version: 2500/7

Article-No.: EPIGLU01, EPIGLU02, EPIGLU04, EPIGLUOP, EPISDP05, EPISDP10, EPISDP25, EPIGLUSD

Relevant identified uses of the substance or mixture and uses advised against

This product may only be used in the manner provided. A liability for improper applications is excluded.

Application of the substance / the preparation:

(Please note the application instructions.)

Cyanoacrylate adhesive for medical use.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MEYER - HAAKE GmbH
Medical Innovations
Daimlerstr. 4
D-61239 Ober-Mörlen

Informing department: Qualitymanagement: ++49 - 6002 / 99270 - 0 (info@meyer-haake.com)
Emergency telephone number: Qualitymanagement: ++49 - 6002 / 99270 - 0 (On week days from 08:00 to 17:00 h)

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Label elements

Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials.
Observe the normal safety regulations when handling chemicals.

Code letter and hazard designation of product:



Xi Irritant

Hazard-determining components of labelling: --

Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe fumes.
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37 Wear suitable gloves.
- 60 This material and its container must be disposed of as hazardous waste.

Special labelling of certain preparations:

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

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vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture consisting of the following components.

Dangerous components:

CAS: 7085-85-0	ethyl 2-cyanoacrylate	 Xi R36/37/38	> 75%
EINECS: 230-391-5		 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 9011-14-7	Polymethylmethacrylat		2 - 5%

SVHC (substances of very high concern): The product contains no listed substances.

Regulation (EC) No 648/2004 on detergents / Labelling for contents: This product is not under restriction of the regulation of EC 648/2004.

Regulation (EC) No 2032/2003 on biocidal-produkts: This product is not under restriction of the regulation of EC 2032/2003.

Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures

General information:



Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation: In case of unconsciousness bring patient into stable side position for transport.

After skin contact:

Instantly wash affected parts of the body with water and soap and rinse thoroughly. Seek medical treatment and present this data sheet.

Instantly wash with water and soap and rinse thoroughly.

After eye contact:

Wash out eyes under running water or with an eye douche for 10 to 15 minutes. Then immediately consult a doctor.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: In case of persistent symptoms consult doctor.

Information for doctor: None.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture Nitrogen oxides (NO_x)

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Dilute with much water.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

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.

7 Handling and storage

Handling

Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Information about protection against explosions and fires: No special measures required.

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Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

According to the water pollution class (refer to WGK, item 12), the country-specific regulations for storage of water-polluting substances are to be complied with.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Protect against frost, severe exposure to the sun and contaminants.

Recommended storage temperature: -18°C to +8 °C

Specific end use(s) This produkt may be used only for discribed applications.

8 Exposure controls/personal protection

Additional information about design of technical systems: Provide good workplace ventilation/air extraction.

Control parameters

Components with critical values that require monitoring at the workplace:

CAS No.	Designation of material	%	Type	Value	Unit
7085-85-0	ethyl 2-cyanoacrylate				
	WEL (Great Britain)			Short-term value: 1.5 mg/m ³ , 0.3 ppm	

Additional information: The applicable WEL-list was used as the basis for the preparation and/or revision of this safety data sheet.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

Breathing equipment: 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Neoprene gloves

Not suitable are gloves made of the following materials: Natural rubber, NR

Eye protection:



Safety glasses.

Tightly sealed safety glasses.

Body protection:



Protective work clothing.

Light weight protective clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid

Colour: Colourless

Smell: Pungent

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pH-value:	Not applicable.
Change in condition:	
Melting point/Melting range:	-22°C (DIN ISO 3016)
Boiling point/Boiling range:	201°C (DIN)
Flash point:	> 85°C (DIN 51755 / EN ISO 2719)
Inflammability (solid, gaseous):	Not applicable.
Ignition temperature:	485°C (DIN 51794)
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not self-igniting.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	Not applicable.
Oxidizing properties:	Product is not oxidizing.
Steam pressure at 25°C:	0.5 hPa (DIN 51640) Not determined.
Density at 20°C:	1.05 g/cm ³ (DIN 51757)
Settled apparent density:	Not applicable.
Solubility in / Miscibility with	
Water:	Polymerises in presence of water.
Organic solvents:	Soluble in many organic solvents.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent separation test:	Not applicable.
Flammable components:	0.0 %
Water:	0.0 %
Other information	None.

10 Stability and reactivity

Reactivity

Chemical stability

Conditions to be avoided: No decomposition when properly applied and stored.

Possibility of hazardous reactions Reacts with alcohols, amines, aqueous acids and alkalis

Incompatible materials: Amines, alcohols, water

Hazardous decomposition products: None

Additional information: There is no risk of decomposition or uncontrolled chemical reaction when the specified application conditions are complied with.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

Due to § 7 of the animal protection law (FRG), no toxicological examination on living organisms was performed for this product. The following listed data are values from the literature which are available to us of individual ingredients, which do not claim to be exhaustive.

Components	Type	Value	Species
7085-85-0 ethyl 2-cyanoacrylate			
Oral	LD50	> 5000 mg/kg	(rat)
Dermal	LD 50	> 2000 mg/kg	(rabbit)

Specific symptoms in biological assay: We do not have any knowledge of this.

Primary irritant effect:

on the skin: Irritant for skin and mucous membranes.

on the eye: Irritant effect.

Sensitization: No sensitizing effect known.

Subacute to chronic toxicity:

Result: We do not have any toxicological data on this point.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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Irritant
Repeated dose toxicity: Not tested.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): None.

* 12 Ecological information

Toxicity

Acquatic toxicity: No further relevant information available.

Persistence and degradability

Evaluation text: We do not have any data on this point.

Other information: The product has good biodegradable properties. (7d:>80%)

Behaviour in environmental systems:

Bioaccumulative potential Does not accumulate in organisms.

Other information: We do not have any data on this point.

Ecotoxicological effects:

Remark: No data available.

Behaviour in sewage processing plants:

Comment: The product does not impair the operation of a sewage plant.

Other information: None.

Additional ecological information:

According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC: None

General notes:

Due to the consistence and the low watersolubility of the product a bioavailability is not probable.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment No effects.

PBT: Not applicable.

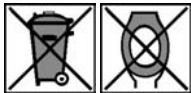
vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste disposal key number:

The classification in a waste code according to the European waste catalogue (EWC) is to be made in accordance with the regional responsible for waste disposal.

European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

Cleaned/completely emptied packaging:

Packaging which does not exhibit any harmful adhering products (e.g. cured or cleaned) can be sent for reprocessing.

* 14 Transport information

Land transport ADR/RID

ADR/RID-GGVS/E Class: -

UN proper shipping name:

Contains: -

Remarks: Water pollutant class: WGK 1 (substance which slightly pollutes water)

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: -

Remarks: None.

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Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Comments: Please note the general packing instructions of IATA / ICAO.

UN "Model Regulation": -

Environmental hazards: -

Special precautions for user Not applicable.

Transport/Additional information:

This product may be sent by post.

No dangerous good according to the upper transport-regulations.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Designation according to EC guidelines:

VOC (EU):

VOC (EU): 0.00 %

Remarks: This product is under restriction of the regulation of EC 42/2004.

National regulations

Additional classification according to Decree on Hazardous Materials, Annex II: None.

Technical instructions (air):

Class	Share in %
NK	1 - 2

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The above details are based on the latest state of our knowledge and do not represent any assurance of product properties. Processing notes for this product are listed in a technical data sheet. Moreover a material compatibility test is to be undertaken with these containers before use of other storage or transport containers than those used by the manufacturer.

Existing laws, decrees and regulations, even those which are not stated in this data sheet are to be complied with by the recipient of our products at his own responsibility.

Relevant phrases

The following risk-phrases belong to single-substances of this preparation (chapter 3). Those risk-phrases, which are relevant for the classification of this product, are listed in the chapter 2.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R36/37/38 Irritating to eyes, respiratory system and skin.

Department issuing data specification sheet:

Ingenieurbüro Jürgen Petry

Heidelsheimer Str. 4

D-76703 Kraichtal

Tel: ++49 7251 - 960 944

FAX: ++49 7251 - 960 946

Contact:

Herr Petry

Tel: ++49 7251 - 960 944

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

[*] Those chapters marked with (*) were changed to the previous version of this MSDS.