

Artikelnummer : 155015
Handelsname :
Druckdatum : 26.08.13

Überarbeitet am : 26.08.13

1. Section 1: Identification of the substance/mixture and of the company / undertaking

This product is designed for domestic and commercial applications.

1.1 Product identifier

Trade name: **Miraglu**

CAS Number:

7085-85-0

EC number:

230-391-5

Index number:

607-236-00-9

1.2 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 application is excluded.

Sector of Use:

SU20 Health services

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category: PC1 Adhesives, sealants

Process category: PROC10 Roller application or brushing

Article category: -

Application of the substance / the preparation:

(Please note the application instructions.)

Cyanoacrylate adhesive for medical use.

Uses advised against: Currently not defined.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier:

Häger & Werken GmbH & Co. KG
Ackerstr. 1 D-47269 Duisburg
Postfach 10 06 54 D-47006 Duisburg
Telefon: +49 (0)203 99 26 9 – 0
info@hagerwerken.de
www.hagerwerken.de

Notfallauskunft: +49 (0)203 99 26 9 – 0

Informing department: Qualitymanagement: ++49 - 203 / 99269 - 0

1.4 Emergency telephone number Qualitymanagement: ++49 - 203 / 99269 - 0
(Mon to Thu: 08:00 to 17:00 h; Fri: 08:00 to 14:30 h)

Poison Control Center:

England and Wales:
NHS Direct - 0845 4647

Scotland:
NHS 24 - 08454 24 24 24

Republic of Ireland:
01 809 2166

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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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 (DSD/DPD):

Dangerous preparation according to EC directives.



Xi; Irritant

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

Information concerning particular hazards for human and environment:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

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** GHS07**Signal word** Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P362 Take off contaminated clothing and wash before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

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

2.3 Other hazards There are no other hazards known.**Results of PBT and vPvB assessment:** Not applicable.

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3. Composition/ Information of Ingredients

3.1 Chemical characterization: Substances -

CAS No. Designation:

7085-85-0 Ethyl 2-cyanoacrylate

Identification number(s)

EC number: 230-391-5

Index number: 607-236-00-9

Dangerous components:

CAS-No.	Designation / Identification		%
CAS: 7085-85-0 EINECS: 230-391-5 Indexnummer: 607-236-00-9	Ethyl-2-cyanoacrylate	 Xi R36/37/38  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	95 - 100%
Other ingredients:			
Polyethylcyanacrylate (M > 600)			1-2%

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

Directive (EC) 98/8 concerning biocidal products / Labelling for contents: The product is not subject to the EU Directive.

4. First Aid Measures

4.1 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.

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

Information for doctor: None.

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

5. Firefighting Measures

5.1 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.

5.2 Special hazards arising from the substance or mixture

In case of fire the following gases are released:

 Nitrogen oxides (NO_x)

Carbon monoxide (CO)

5.3 Advice for firefighters
Protective equipment: No special measures required.

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Fire fighting information: Cool containers with water jet. Transport containers can burst explosively due to severe heat.

6. Accidental Release Measure

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Remove unauthorised persons from the danger area.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

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 information on disposal.

7. Handling and Storage

7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation / exhaustion at the workplace.

Open and handle container with care.

Prevent formation of aerosols.



Do not eat, drink or smoke when processing the product.

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

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility: Store away from food.

Further information about storage conditions:



Protect against sun, heat and moisture.

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

Storage class: 10

7.3 Specific end use(s)

This product may be used only for described applications.

8.) Exposure Controls / Personal Protection

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

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

DNELs: The values given for the "Derived-No-Effect-Level" are calculated for private consumers.

PNECs: Not available.

Ingredients with biological limit values: Der Stoff hat keinen biologischen Grenzwert.

Workplace exposure limits: Great Britain / EU

CAS-No	Designation of Material
7085-85-0	2-Ethyl Cyanoacrylate (95 - 100%)
WEL (Great Britain): short-term value 1.5 mg/m ³ , 0.3 ppm	

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

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

Use skin protection cream for preventive skin protection.

Instantly remove any soiled and impregnated garments.

Avoid contact with the eyes and skin.

**Do not eat, drink, smoke or take snuff while working.**

Use a moisturising skin cream after processing the product.

Breathing equipment:

Not necessary if room is well-ventilated.

Filter AX.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands:**Protective gloves.**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 breakthrough 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:**

0,2 - 0,4 mm; ≤ 120 min.

Neoprene gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

For the permanent contact gloves made of the following materials are suitable:

0,5 - 0,7 mm; 120 - 240 min.

Plastic gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Not suitable are gloves made of the following materials:

Rubber gloves

Leather gloves

Strong gloves

Eye protection:**Safety glasses.**

Tightly sealed safety glasses.

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Body protection:

Protective work clothing.

Impervious protective clothing

Risk management measures:

There are no measures established for the risk management of ingredients according to Article 32 of Regulation (EC) No 1907/2006.

9.) Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:** Liquid**Colour:** Colourless**Smell:** Alcohol-like**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)**Fire behavior:** The product doesn't support combustion.**Ignition temperature:** 485 °C (DIN 51794)**Decomposition temperature:** Not determined.**Self-inflammability:** Not determined.**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Oxidizing properties:** Product is not oxidizing.**Steam pressure at 25 °C:** 0.5 hPa (DIN 51640)

Not determined.

Density at 20 °C: 1.07 g/cm³ (DIN 51757)**Settled apparent density:** Not applicable.**Evaporation rate** Not determined.**Solubility in / Miscibility with****Water:** Polymerises in presence of water.**Organic solvents:** Miscible with many organic solvents**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****dynamic:** Not determined.**kinematic:** Not determined.**Solvent separation test:** Not determined.**Flammable components:** 0.0 %**9.2 Other informations****VOC (EU):** 0.00 %**Remark:** The product is not subject to the VOC Directive 2004/42 EU.**10. Stability and reactivity****10.1 Reactivity** The product reacts chemically with substances, listed in chapter 10.3.**10.2 Chemical stability** The product is in compliance with the storage and processing conditions, chemically stable.**Conditions to be avoided:** No decomposition when properly applied and stored.**10.3 Possibility of hazardous reactions** Reacts with alcohols, amines, aqueous acids and alkalis**10.4 Conditions to avoid** See section 7.2**10.5 Incompatible materials** Amines, alcohols, water**10.6 Hazardous decomposition products** No dangerous decomposition products known.

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

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

With this product no toxicological studies were performed on living organisms. The following data are literature values of individual ingredients that have no claim to completeness.

Art		
Oral	LD50	>5000mg/kg (Rat)
Dermal	LD50	>2000mg/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.

Strong irritant with the danger of severe eye injury.

Sensitization: The substance has no sensitizing effect.

Subacute to chronic toxicity:

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

Repeated dose toxicity: Not tested.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): .

Listing:

Substance is not listed.

12. Ecological information

12.1 Toxicity

Aquatic toxicity: The following values were obtained from the literature.

12.2 Persistence and degradability No further relevant information available.

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

Other information: The product has good biodegradable properties.

12.3 Bioaccumulative potential

Does not accumulate in organisms.

7085-85-0	Ehyl 2-cyanoacrylate
Bioaccum.	0,776 log Pow (-)

12.4 Mobility in soil No further relevant information available.

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

Ecotoxicological effects:

Remark: No data available.

Behaviour in sewage processing plants:	
7085-85-0 Ehy 2-cyanoacrylate	
Degrad (28d)	57 % (-)

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

Other information: None.

Additional ecological informations:

COD-value: No data available.

BOD₅ -value: No data available.

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

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General notes:

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

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 No effects.

12.6 Other adverse effects No further relevant information available.

13. Disposal considerations**13.1 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 Abfälle
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
18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 02 00	wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Cleaning by recycler.

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**14.1 UN-Number**

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

Class Void

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user: Not applicable.**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the**

IBC Code: Not applicable.

Transport/Additional information:

No dangerous good according to the upper transport-regulations.
This product may be sent by post.

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The above details are based on the latest state of our knowledge. Processing notes for this product are listed in a technical data sheet.

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

Relevant phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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



In case of commercial use, employees are to be informed about the potential dangers every year.

Department issuing data specification sheet: See section 1.3**Note:**

The informations about ingredients given in this data sheet are basing on the informations of our suppliers of raw materials. Despite careful handling, the completeness and correctness of these data can not be guaranteed. This is especially true for substances below their declaration limit and for substances without classification or without attribution to a CAS number. Physical data were identified by the manufacturer of this product. They represent no assurance of product characteristics and establishes no legal contractual relationship.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organization

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

IOELV: Indicative Occupational Exposure Limit Value (EU)

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized 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)

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LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent