

## SECTION 1: Identification of the substance/mixture and of the company/undertaking


### 1.1 Product identifier

Trade name: **TRUglue®**  
Reference-No.: 1512.000.04.23  
Article-No.: 75005, 75006, 75007, E75005, E75006, E75007, BF75005, BF75006, BF75007  
Unique Formula Identifier UFI 2TE0-T0TE-500H-J625  
Nanoform: The product contains no nanoparticles.

### 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.  
This MSDS is exclusively for hazard information for health professionals.

#### Application of the substance / the preparation:

 (Please note the application instructions.)

Medical wound adhesive.

Uses advised against: Currently not defined.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: MEYER - HAAKE GmbH  
. Medical Innovations  
. Daimlerstraße 4  
. D-61239 Ober-Mörlen  
.

Informing department: Quality Management: ☎ ++49 - 6002 / 99270 - 0 [info@meyer-haake.com]

### 1.4 Emergency telephone number

Manufacturer / Supplier: Quality Management: ☎ ++49 - 6002 / 99270 - 0 [Mon to Thu: 08:00 to 17:00 h; Fri: 08:00 to 14:30 h]

Poison Control Center: In the case of acute poisoning: ☎ The telephone number can be found in the local telephone book.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The CLP classification of this product corresponds to the 17th + 18th ATP (EU).

Classification according to Regulation (EC) No 1272/2008 [CLP]:

 GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

### 2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008 [CLP]: The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

(See section 2.1)

GHS07

Signal word: Warning

Hazard-determining components of labelling:

Ethyl 2-cyanoacrylate

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 carefully and follow all instructions.

P261 Avoid breathing mist/vapours/spray.

P280 Wear eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P405 Store locked up.

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

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**Additional information:**

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**2.2.2 Labelling of packages where the contents do not exceed 125 ml:** The product is subject to labeling according to the CLP regulation.

**2.2.3 Information pertaining to particular dangers for man and environment:** The product supports combustion.

**2.3 Other hazards**

See subsections 2.3.1 to 2.3.3

The product contains flammable components.

**2.3.1 Skin resorptive ingredients:**

None of the ingredients are listed.

**2.3.3 PBT, vPvB and SVHC ingredients:** Not applicable.

PBT: Not applicable.

vPvB: Not applicable.

**SVHC (Substances of Very High Concern):**

None of the ingredients are listed.

**2.3.4 Determination of endocrine-disrupting properties (EU):** The product does not contain substances with endocrine disrupting properties

**SECTION 3: Composition/information on ingredients**

**3.1 Chemical characterisation: Mixtures**

Description: Acrylate adhesive

**Dangerous components:** The product contains the following hazardous ingredients:

CAS No.	Designation / Identification	%
CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 Reg.nr.: 01-2119527766-29-	Ethyl 2-cyanoacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335, EUH202 Specific concentration limit.: STOT SE 3; H335: C ≥ 10 %	85 – < 95%

**3.2 Regulation (EC) 648/2004 on detergents / Labelling for contents:** The product is not subject to this regulation.

**3.3 Regulation (EU) 528/2012 on biocides / ingredients:** The product does not contain any protective agents for storage.

**3.4 Additional informations:**

For the wording of the listed hazard phrases refer to section 16.


Further informations about the ingredients can be found at <https://gestis.dguv.de>

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**4.1.1 General informations:**

Observe the self-protection of the first-aiders (suitable gloves, mouth and nose protection mask).

 Rescue the victim from the danger area immediately.

If the patient feels unwell, consult a doctor and present this data sheet. Inform the doctor about the measures taken.

**4.1.2 After inhalation:** Supply fresh air; consult doctor in case of symptoms.

**4.1.3 After skin contact:** Instantly wash with water and soap and rinse thoroughly.

**4.1.4 After eye contact:**

Protect the not injured eye.

Rinse opened eye for several minutes under running water. Then consult doctor.

**4.1.5 After swallowing:**

Rinse mouth with water, do not swallow. Do not induce vomiting. Seek medical attention and present this data sheet.

Do not give milk or active charcoal.

In the event of unconsciousness, lay in a stable lateral position. If breathing has stopped, give rescue breaths.

**4.1.6 In case of burns:**

To relieve pain, immediately cool small burns the size of the palm of your hand with running tap water as possible.

Do not cool extensive burns or scalds with water. Cover skin areas with a sterile cloth. See a doctor immediately.

Do not bandage burns on the face. Do not remove burnt clothing from skin.

Do not open burn blisters. See a doctor.

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**4.1.7 Injuries from stings or splinters:**

Lay the injured person comfortably on the floor and calm down.  
Do not remove objects from the wound. Cover wounds aseptically.  
Consult a doctor.

**4.1.8 Self-protection of first-aiders:**

- Avoid direct skin or mucous membrane contact with blood or other body fluids. Wear protective gloves.
- Use a breathing aid when donating breath.
- Only help the wounded in a safe place.
- Avoid self-contamination with dangerous substances.
- Further information on protective equipment can be found in Section 8.2 .

**4.2 Information for the doctor**

-  The following instructions are only for emergency medical treatment.  
The medical measures may not be performed by first responders.

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

**4.2.2 Risks:**

Danger of impaired breathing.  
Cyanoacrylates give off heat during polymerization. Large-scale contamination can generate enough heat to cause burns.


**4.3 Indication of any immediate medical attention and special treatment needed:**

If swallowed, induce vomiting (if patient is conscious).  
If swallowed, gastric irrigation.  
Treat affected skin areas symptomatically.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing agents:

-  Carbon dioxide, 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 (NOx)  
Carbon monoxide (CO)

**5.3 Advice for firefighters**

**In-house fire protection helpers:**

- Warn employees and ask them to leave the room / building and send them to the assembly point.
- Rescue injured people from the danger area. Notify first aider.
- If there is a fire, try to extinguish it. Pay attention to self-protection.
- Instruct fire brigade and rescue service. Wait for instructions from the fire operation manager.


**5.3.1 Protective equipment:**

-  Wear self-contained breathing apparatus.  
Use tight protective suit.

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

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

-  Remove unauthorised persons from the danger area.

**6.1.1 For non-emergency trained personnel:** There are no special measures required.

**6.1.2 For emergency responders:** There are no special measures required.

**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).  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.

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Dispose of contaminated material as waste according to item 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8.2 for information on personal protective equipment.  
See Section 13 for information on disposal.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

Keep container tightly sealed.


7.1.1 Information about protection against explosions and fires: Do not smoke when processing.

7.1.2 Notes on workplace design and hygiene measures at the workplace: No information - medical device

### 7.2 Conditions for safe storage, including any incompatibilities

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

7.2.2 Information about storage in one common storage facility:

 Do not store together with food, beverage or animal feed.

Store away from oxidising agents.

Decanting the product into beverage bottles is prohibited due to the risk of confusion.

7.2.3 Further information about storage conditions: Protect from moisture.

- Maximum storage temperature: 8°C
- Minimum storage temperature: -18°C
- Recommended storage temperature: -18°C

7.3 Specific end use(s) The product intended solely for the application stated in the product description. (See section 1.2)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

8.1.0 Components with critical values that require monitoring at the workplace

8.1.1 DNELs:

The values given for the "Derived No-Effect Level" are calculated individual values. A combined effect of the substances was not considered.

CAS No.	Designation of material
CAS: 7085-85-0	Ethyl 2-cyanoacrylate
Inhalative DNEL	9.25 mg/m <sup>3</sup> (Consumer)

8.1.2 Workplace exposure limits: (National workplace exposure limits) / (EU 2004/34)

CAS No.	Designation of material	Type	Value	Unit
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8.1.3 Additional Occupational Exposure Limit Values for possible hazards during processing:

At the contemplated processing there are no further exposure limits to be observed.

8.1.4 Ingredients with biological limit values:

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


### 8.2 Limitation and monitoring of exposure

8.2.1 Additional information about design of technical systems: No further data. See item 7.


8.2.2 Individual protection measures, such as personal protective equipment:

The use of protective equipment may be required for commercial use of the product. Type and extent depend on the workplace.

8.2.2.1 General protective and hygienic measures:

 Use skin protection cream for preventive skin protection.

Avoid contact with the eyes and skin.


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

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

#### 8.2.2.2 Breathing equipment:

 If the room is well ventilated, no respiratory protection is necessary.  
In the event of insufficient ventilation, respiratory protection is required.  
- Recommended filter device for short term use [1 - 30 Min]: Respiratory protection half mask  
- Recommended filter device for commercial use [>30 Min]:  
Observe wearing time limitation of the manufacturer.  
Full face respirator

#### 8.2.2.3 Protection of hands:

 Protective gloves.


The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Check protective gloves prior to each use for their proper condition.  
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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

 The use of waterproof gloves with little protection Against chemicals is recommended.

- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:  
0,1 - 0,2 mm; 30 - 120 min.

Butyl rubber  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR

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


0,3 - 0,8 mm; 120 - 240 min.  
Rubber gloves  
Plastic gloves  
Butyl rubber  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Chloroprene rubber  
Neoprene gloves.

- Not suitable are gloves made of the following materials:




Rubber gloves  
Leather gloves  
Fabric gloves

#### 8.2.2.4 Eye/face protection:

 Safety glasses



#### 8.2.2.5 Body protection:

 Protective work clothing

Impervious protective clothing

#### 8.2.2.6 Protective shoes: -

#### 8.2.2.7 Skin protection:

 Wash hands thoroughly before breaks and at the end of work.  
 Use a moisturizing skin cream after processing the product.

8.2.3 Other protective measures No further protective measures are required.

Thermal hazards: The product does not pose any thermal hazards.

8.3 Limitation and supervision of exposure into the environment At this point no data are available.

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**8.4 Risk management measures**

The product contains at least one substance with an occupational exposure limit. Special protective measures must be taken for the employees concerned.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

The following physical data are subject to normal fluctuations of raw materials and in the production.  
[Lit <sup>1</sup> = Literature value]

**9.1.1 General Informations**

Physical state :	Liquid
Colour :	Colourless
Smell :	Characteristic
Melting point / Melting range :	-31 °C (DIN ISO 3016)
Boiling point or initial boiling point and boiling range :	214 °C (±2% DIN EN ISO 3924, CAS: 7085-85-0 Ethyl 2-cyanoacrylate) [Highest / lowest value of individual components]
Lower and upper explosion limit :	Not determined.
Lower limit :	Not determined.
Upper limit :	87 °C (EN ISO 13736)
Flashpoint :	The product doesn't support combustion.
Fire behavior :	The product contains ingredients which may form flammable gases or vapors. 480 °C (DIN EN 14 522, CAS: 7085-85-0 Ethyl 2-cyanoacrylate)
Auto-ignition temperature:	Not applicable.
Decomposition temperature :	Mixture reacts violently with water.
pH-value:	.
Viscosity:	60 – 180 mPas (±10% DIN 51562)
Dynamic at 20 °C:	
Solubility / Miscibility	Fully miscible.
Water:	Polymerizes on contact with water.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapor pressure at 20 °C:	0.2 hPa (Lit <sup>1</sup> ) [Value is calculated]
Density and/or relative density	
Density at 20 °C:	1.05 – 1.051 g/cm <sup>3</sup> (±5% DIN EN ISO 3675)
Bulk density:	Not applicable.

**9.2 Other informations:**

Form:	Liquid
Important information on protection of health and environment, and on safety:	No further information available.
Auto-ignition temperature :	The product is not self igniting.
Explosive properties:	Product is not explosive.
Comments:	No remarks.
Change in conditions	
Softening point/range:	Not applicable.
Oxidizing properties:	The product has no oxidizing properties.

**9.2.1 Information with regard to physical hazard classes**

Explosive substances / mixtures and products containing explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Substances and mixtures corrosive to metals	Void
Desensitized substances / mixtures and products containing explosives	Void
9.2.2 Other safety characteristics:	No further information available.
9.2.3 More information:	.
VOC (EG 2004/42):	0.0 g/l

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Comments:

The product is not subject to the VOC Directive 2004/42 EU.

## SECTION 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.  
- **Information on the shelf life:** The product can be stored in the unopened and closed container if the storage conditions (see Chapter 7) are observed.  
- **Thermal decomposition / conditions to be avoided:** No decomposition when properly applied and stored.

### 10.3 Possibility of hazardous reactions

Polymerization with evolution of heat.  
Reacts with water.  
Reacts with moist air.

### 10.4 Conditions to avoid

See section 7.2

### 10.5 Incompatible materials

Amines, alcohols, water.

### 10.6 Hazardous decomposition products

If handled and stored properly dangerous products of decomposition are not to be expected.

### 10.7 Additional informations

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

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

If the substance or the mixture is not classified for a particular hazard, the following notice will be given in the safety data sheet: "Based on available data the classification criteria are not met."

**11.1.1 Acute toxicity:** Based on available data, the classification criteria are not met.

**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.

(\*BW = body weight)

CAS	Name	Type	Value (Species)
<b>CAS: 7085-85-0 Ethyl 2-cyanoacrylate</b>			
Oral	LD 50	> 5,000 mg/kg BW (rat) (OECD 432 - Acute Oral toxicity - Acute Toxic Class)	
Dermal	LD 50	> 2,000 mg/kg BW (Rabbit) (OECD 402 - Acute Dermal Toxicity)	

### 11.1.2 Specific symptoms in biological assay .

- **Skin corrosion / irritation:**

Skin irritation after prolonged contact.

**CAS: 7085-85-0 Ethyl 2-cyanoacrylate**

Irritation of skin	PDII (Primary Dermal Irritation Index)	0.87 - (Rabbit) (OECD 404 - Acute Dermal Irritation / Corrosion)
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- **Serious eye damage / irritation:**

Causes serious eye irritation.

**CAS: 7085-85-0 Ethyl 2-cyanoacrylate**

Irritation of eyes	OEIS (Overall Eye Irritation Score)	10 – 29 - (Rabbit) (OECD 405 - Acute Eye Irritation / Corrosion)
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- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

- **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 respiratory irritation.

- **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.

- **Other information (about experimental toxicology):** There are no data available.

### 11.1.3 Subacute to chronic toxicity

**Examinations:** There are no data available.

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**- Additional toxicological informations:**

The polymerized product has no toxicologically relevant characteristics.

Repeated or prolonged skin contact may cause defatting of the skin and cause dermatitis. The skin can become sensitive to other substances.

- Repeated dose toxicity: We have no further toxicological data on this point.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): The product contains no CMR-substances.

- Information on likely routes of exposure: Skin / Eyes

- Symptoms related to the physical, chemical and toxicological characteristics: We do not have any information on this point.

- Delayed and immediate effects as well as chronic effects from short and long-term exposure: We do not have any information on this point.

- Interactive effects: We do not have any information on this point.

**11.2 Information on other hazards .**

- Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

**11.3 Other information** No further informations.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: The product has not been tested for aquatic toxicity.

### 12.2 Persistence and degradability

Elimination degree:

CAS: 7085-85-0 Ethyl 2-cyanoacrylate

Biodegradability (28d) 98 % (OECD 301 - Ready Biodegradability)

Evaluation text: There are no ratings available.

Other information: The product is biodegradable.

### 12.3 Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment No effects.

12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects:

12.7.1 El producto no contiene sustancias con propiedades disruptoras endocrinas. .

Remarks: No data available.

12.7.2 Behaviour in sewage processing plants

Remarks: No data available.

Other informations: None.

12.7.3 Additional ecological informations

COD-value: No data are available for the ingredients.

According to recipe contains the following heavy metals and compounds according to EC guideline NO. 2006/11 EC:

The product does not contain listed substances.

12.7.4 General notes: At present there are no ecotoxicological assessments.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendation: -

#### 13.1.1 Waste disposal key number

**A** The assignment of a waste key number according to the European Waste Catalog (EWC) must be carried out in consultation with the regional waste disposal company.

(1st Product; 2nd Product packaging; 3rd Overpack)

European waste catalogue:

For uses in septic areas it may be necessary to dispose of the empty packaging under waste code 18 01 06 "Chemicals, consisting of or containing dangerous substances".

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)

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20 01 27*	Paint, inks, adhesives and resins containing hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	Packaging containing residues of or contaminated by hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 01	Paper and cardboard packaging
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

**13.1.2 Uncleaned packaging**

**Recommendation:**

Empty container completely.

Not contaminated packaging can be used for recycling.

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**Recommended cleaning agent:**

Cleaning by recycler.

Water, if necessary with cleaning agent.

**13.1.3 Cleaned / completely emptied packaging**



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

**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b> ADN, IMDG, IATA General note	Void
Bei Verwendung des Abfallschlüssels 18 01 06 "Chemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten" ist der Abfall als "Infektiöse Abfälle" unter der UN 3291 zu transportieren.	
<b>14.2 UN proper shipping name</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es):</b> ADR/RID/ADN, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group:</b> ADR/RID/ADN, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b>	Not applicable.
<b>14.6 Special precautions for user:</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments:</b>	Not applicable.
<b>14.8 Transport / Additional information:</b> ADR/RID/ADN Excepted quantities (EQ): Packaging and special regulation:  IMDG Remarks:  IATA Comments:	No dangerous good according to the upper transport-regulations.  Not subject to the provisions of the ADR None.  None.  >500 ml UN3334, PI906; ≤500 ml unrestricted

**SECTION 15: Regulatory information**

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

**15.1.1 EU regulations**

The product contains no substances according to (EC) No. 1005/2009, which deplete the ozone layer.

The product contains no organic substances according to (EC) No. 850/2004, which are persistent.

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The product does not contain any dangerous substances according to (EC) No. 649/2012 ("PIC") with import or export regulation.

**15.1.2 Directive 2012/18/EU (Seveso-III directive)** The product and its ingredients are not subject to the EU-directive.

**15.1.3 List of substances subject to authorization according to Regulation (EC) No. 1907/2006 Annex XIV:**

None of the ingredients are listed.

**15.1.4 Regulation (EC) No 1907/2006 Annex XVII - Restrictions:** 03 Liquid substances or mixtures considered hazardous.

**15.1.5 Regulation (EU) No. 649/2012 on the export and import of dangerous chemicals (PIC):**

CAS no.	Designation	Appendix
None of the ingredients are listed.		

None of the ingredients are listed.

**15.1.6 Regulation (EU) 2019/1021 on persistent organic pollutants (POPs):**

CAS no.	Designation	Appendix
None of the ingredients are listed.		

None of the ingredients are listed.

**15.1.7 List of Substances subject to approval (REACH Annex XIV):**

None of the ingredients are listed.

**15.1.8 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)-Annex II:**

None of the ingredients are listed.

**15.1.9 Regulation (EU) 1148/2019 on the restriction of explosives precursors:**

**15.1.9.1 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients are listed.

**15.1.9.2 Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients are listed.

**15.1.10 Regulation (EC) No 273/2004 on drug precursors:**

None of the ingredients are listed.

**15.1.10.1 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients are listed.

**15.1.11 REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting potential):**

None of the ingredients are listed.

## 15.2 National regulations

In principle, the national regulations are to be determined and observed by the user of the product on their own responsibility. Apart from the following regulations, we are not aware of any legal regulations.

**CE** This product is approved as a medical device.

**15.2.1 Notes on employment restrictions:** When processing this preparation, no employment restrictions must be observed.

**15.3 Downstream users - Conditions or monitoring arrangements for authorisations granted under Title VII REACH :** None

## 15.4 Chemical safety assessment

For the mixture a chemical safety assessment has not been performed. Chemical Safety Assessments are available for ingredients with an ECHA-registration.

## SECTION 16: Other information

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.

© This MSDS is for information within the suppliers chain; it is copyrighted. A transfer to third parties outside the supply to non-official purposes or publication, even in part, requires the prior written consent of the manufacturer.

The safety data sheet also contains personal data whose use, publication and disclosure is prohibited.

Safety data sheets serve to pass on information within the supply chain according to REACH. Private end users are not part of this supply chain and therefore have no legal right to a product safety data sheet.

The classification of the product was carried out according to the criteria of Annex I (EC) 1272/2008.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

### Reasons for changes:

Updating of data.

In the revision of the MSDS the labeling was created in accordance to the current rules of the EC-CLP, with data from the database of registered substances and the actual C&L-Inventory of the ECHA.

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EU

Trade name: **TRUglue®**

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**Training hints:**



Please read the consumer information.

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

Skin corrosion/irritation Serious eye damage/irritation Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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**Material Safety Data Sheet issued by:**

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**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.

**Date of previous version: 06.09.2022**

**Version number of previous version: 22**

**Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation  
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)  
ECHA: European Chemicals Agency  
ATE: Acute Toxicity Estimates  
CMR: Carc., Muta., Repr.  
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  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 %  
LD50: Lethal dose, 50 %  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Important literature and data sources:**

- (EG) Nr. 1272/2008 (CLP, EU-GHS)  
- (EG) Nr. 2020/878 (REACH Annex II - MSDS)

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