

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 21.06.2007

Revision: 21.06.2007

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

- Product details

- Trade name: Schnellkleber für CALPEX T-Schale
- Application of the substance / the preparation *Adhesives*

- Manufacturer/Supplier:

Brugg Rohrsystem AG
 Industriestrasse 39
 CH-5314 Kleindöttingen
 Telefon: +41-56-268 78 78

Telefax: +41-56-268 78 79

- Further information obtainable from: *Safety Department*
- Department issuing MSDS: *pipesystems@brugg.com*
- Information in case of emergency: *Swiss Toxicological Information Centre: +41-1-2 51 51 51*

2 Hazards identification

- Hazard description:



Xi Irritant

- Information concerning to particular hazards to man 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.

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

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

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- Chemical characterization

- Description: *Adhesive*

- Dangerous components:

CAS: 7085-85-0	ethyl 2-cyanoacrylate	Xi; R 36/37/38	≥30%
EINECS: 230-391-5			
EU Number: 607-236-00-9			

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

4 First-aid measures

- General information: *Immediately remove any clothing soiled by the product.*

- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: *After contact with skin, wash immediately with plenty of soap and water.*

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

5 Fire-fighting measures

- Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards caused by the substance, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Person-related safety precautions:

Ensure adequate ventilation

Avoid contact with the eyes and skin.

- Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

- Measures for cleaning/collecting:

Ensure adequate ventilation.

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

Dispose of the material collected according to regulations.

7 Handling and storage

- Handling:

- Information for safe handling:

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

- Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

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

- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

- Maximum storage temperature: 25 °C

- Minimum storage temperature: 5 °C

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

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- Ingredients with limit values that require monitoring at the workplace:**7085-85-0 ethyl 2-cyanoacrylate**WEL (Great Britain) Short-term value: 1,5 mg/m³, 0,3 ppm**- Additional information:***The lists valid during the making were used as basis.**Ensure good ventilation/exhaustion at the workplace.**Relative humidity should be at least 50-60%.***- Personal protective equipment:****- General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.**Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.**Do not inhale gases / fumes / aerosols.**Avoid contact with the eyes and skin.***- Respiratory protection:** *Use suitable respiratory protective device in case of insufficient ventilation.***- Protection of hands:***Protective gloves (EN 374)**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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.***- Not suitable are gloves made of the following materials:** Cotton gloves**- Eye protection:** Safety glasses

9 Physical and chemical properties

- General Information

Form:	Fluid
Colour:	Colourless
Odour:	Irritant

- Change in condition**Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.**- Flash point:** > 80°C**- Self-igniting:** Product is not self-igniting.**- Danger of explosion:** Product does not present an explosion hazard.**- Density at 20°C:** 1,040 g/cm³**- Solubility in / Miscibility with water:** Hydrolized.

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- Viscosity:
Dynamic at 25°C: 450 - 650 mPas (Brookfield)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Protect from heat and direct sunlight.
- **Dangerous reactions**
 Exothermic polymerization.
 Reacts with alcohols, amines, aqueous acids and alkalis.
- **Dangerous decomposition products:**
 No dangerous products of decomposition if used and stored according to specifications.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
 Mecrilate is endangered to be sensitizing by inhalation, this cannot be excluded for ethyl 2-cyanoacrylate.
- **Additional toxicological information:**
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
 Irritant
 No experimentally found toxicological data are available for this preparation.

12 Ecological information

- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**
 The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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- Code letter and hazard designation of product:*Xi Irritant***- Risk phrases:***36/37/38 Irritating to eyes, respiratory system and skin.***- Safety phrases:***23 Do not breathe vapour.**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.**35 This material and its container must be disposed of in a safe way.***- Special labelling of certain preparations:***Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.***- National regulations:****- Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.***16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases*36/37/38 Irritating to eyes, respiratory system and skin.*

EU