

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.12.2007

V - 4

Revision: 18.12.2007

**1 Identification of substance:**

- **Product details:**
- **Trade name:** VARYBOND Grade 14-96 Cyanoacrylate UNIVERSAL
- **Application of the substance / the preparation:** Adhesives
- **Manufacturer/Supplier:**  
ITW Chemische Produkte GmbH & Co. KG  
Mühlacker Str. 149  
D-75417 Mühlacker  
Tel: +49 7041 96340  
Fax: +49 7041 963429  
E-Mail: info@itwcp.de  
Internet: www.itwcp.de
- **Informing department:** Product safety department
- **Emergency information:**  
ITW Chemische Produkte GmbH & Co. KG  
Tel: +49 7041 96340    Mo - Do 8:00 - 16:30    Fr 8:00 - 14:00

**2 Hazards identification**

- **Hazard designation:**




Xi Irritant

- **Information pertaining to particular dangers for 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 in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:** Adhesive.

- **components:**

CAS: 7085-85-0	ethyl 2-cyanoacrylate	 Xi; R 36/37/38	≥30%
EINECS: 230-391-5			

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

**4 First aid measures**

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

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- **After inhalation**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult doctor.
- **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**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **Special hazards caused by the material, 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 breathing apparatus.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered containers with water spray jet.  
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 water bodies.  
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.

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- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed containers.
  - Protect from frost.
  - Protect from heat and direct sunlight.
  - Store in a locked cabinet and out of the reach of children.
- **Maximum storage temperature:** 25 °C
- **Minimum storage temperature** 5 °C

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**

Ensure good ventilation/ exhaustion at the workplace. Relative humidity should be at least 50-60%. The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and feed. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.
- **Breathing equipment:** Use breathing protection 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

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- **Eye protection:** Safety glasses

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	colourless
<b>Odour:</b>	Irritant

#### · Change in condition

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** Not determined

· **Flash point:** >80°C

· **Self-inflammability:** Product is not self igniting.

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** 1.06 g/cm<sup>3</sup>

· **Solubility in / Miscibility with Water:** Hydrolised

· **Viscosity:**  
**dynamic at 25°C:** 80 - 110 mPas (Brookfield)

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available.
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitisation:**  
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 EC Classification Guidelines for Preparations as issued in the latest version:

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### 12 Ecological information:

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.

### 13 Disposal considerations

**Product:**

**Recommendation** Disposal must be made according to official regulations.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

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

**ADR/RID-GGVS/E Class:** -

**Maritime transport IMDG:**

**IMDG Class:** -

**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** -

### 15 Regulatory information

**Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

**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 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.

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35 This material and its container must be disposed of in a safe way.

- **Special designation of certain preparations:**  
Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 16 Other information:

Information is based on our current knowledge but does not establish a promise of product characteristics and does not substantiate any contractual legal relationship. Drawing of back-up data file for:

MSDS - Service - Center gmbH.  
Materiel-Safety-Data-Sheet  
Alemannenstrasse 49  
6830 Rankweil  
AUSTRIA

Tel.: +43-(0)5522-60067  
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- **Relevant R-phrases**  
36/37/38 Irritating to eyes, respiratory system and skin.
- **Contact:** ITW Chemische Produkte GmbH & Co. KG, D-75417 Mühlacker
- **\* Data compared to the previous version altered. .**