

Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.07.2006

Reviewed on 26.08.2004

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

- **Product details**
- **Trade name:** *DTK-Adhesiv (components B and K)*
- **Article number:** 540 0010 6, 540 0111 B, 540 0111 K
- **Application of the substance / the preparation** *Self- and light-curing composite adhesiv*
- **Manufacturer/Supplier:**
*Bredent
 Weißenhorner Straße 2
 D-89250 Senden
 Tel.: +49 (0) 7309/872-0
 Fax: +49 (0) 7309/872-24*
- **Further information obtainable from:** *R & D*
- **Information in case of emergency:** *Tel.: +49 (0) 6132-84436 (24 h)*

2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
Preparation based on acrylic resins, glas powder and silicon dioxide. Contains aliphatic and aromatic dimethacrylate and carboxilic methacrylate.
- **Identification number(s)**

3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information concerning particular hazards for human and environment:**
*R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 R 36/37/38 Irritating to eyes, respiratory system and skin.*

4 First aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
*Supply fresh air; consult doctor in case of complaints.
 In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:**
*Immediately wash with water and soap and rinse thoroughly.
 If skin irritation continues, consult a doctor.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Call for a doctor immediately.*

5 Fire-fighting measures

- **Suitable extinguishing agents:**
*Use fire extinguishing methods suitable to surrounding conditions.
 CO₂, powder or water spray. Fight larger fires with water spray.*

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- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective clothing.
Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in the dark.
Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Do not inhale gases / fumes / aerosols.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Protection of hands:** Rubber gloves
- **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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

· General Information

Form:	Viscous
Colour:	Yellowish
Odour:	Ester-like

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- | |
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| <ul style="list-style-type: none"> · Change in condition
 <i>Melting point/Melting range: Undetermined.</i>
 <i>Boiling point/Boiling range: >200°C</i> |
| <ul style="list-style-type: none"> · Flash point: > 125°C |
| <ul style="list-style-type: none"> · Danger of explosion: Product does not present an explosion hazard. |
| <ul style="list-style-type: none"> · Density at 20°C: 1.9 g/cm³ |
| <ul style="list-style-type: none"> · Solubility in / Miscibility with water at 20°C: 50 g/l |
| <ul style="list-style-type: none"> · Solvent content:
 VOC (EC) 0,00 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Dangerous reactions**
Polymerisation.
Reacts with reducing agents.
Reaktion mit Radikalbildnern, reduzierenden Substanzen, Schwermetallionen
- **Dangerous decomposition products:** *No dangerous decomposition products known.*

11 Toxicological information

- **Acute toxicity:**
- | |
|--|
| · LD/LC50 values relevant for classification: |
| Oral LD50 >1000 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** *Irritant to skin and mucous membranes.*
 - **on the eye:** *Strong irritant with the danger of severe eye injury.*
 - **Sensitization:** *Sensitization possible through skin contact.*

12 Ecological information

- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

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14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 8 Corrosive substances.
- **UN-Number:** 1760
- **Description of goods:** 1760 ÄTZENDER FLÜSSIGER STOFF, N.A.G. (Methacrylcarbonsäure)

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1760
- **Label** 8
- **EMS Number:** F-A,S-B
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (Methacrylcarbonsäure)

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



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1760
- **Label** 8
- **Proper shipping name:** CORROSIVE LIQUID, N.O.S. (Methacrylcarbonsäure)

15 Regulatory information

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xn Harmful
- **Risk phrases:**
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
- **Safety phrases:**
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.
28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
37/39 Wear suitable gloves and eye/face protection.

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.

- **Department issuing MSDS:** R & D
- **Contact:** R & D

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