

# Safety Data Sheet

## according to 91/155/EEC

### 1. Product identification/preparation/company undertaking

Trade name: **PlasticBond / PlasticBond T**  
Order-No.: **PBA1071**

Manufacturer: R-dental Dentalerzeugnisse GmbH  
Winterhuder Weg 88  
D-22085 Hamburg  
Germany

Emergency information:  
Dr. Andreas Sprafke  
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### 2. Composition/information of ingredients

Chemical characterization: Solution of polyacrylates in dichloromethane and ethylmethylketone  
Description: -

CAS-No.: [78-93-3]  
Name: ETHYL METHYL KETONE  
R-classification: R 11-36-66-67

CAS-No.: [75-09-2]  
Name: DICHLOROMETHANE  
R-classification: R 40

### 3. Hazards identification

Risk identification: Flammable F, R 11  
Special risks for human beings and environment:  
Flammable, irritating for eyes and skin.  
Classification: Classification corresponds to present EEC guidelines, additionally information by literature.

### 4. First-aid measures

General information after skin contact: Wash with plenty of water and soap. Remove contaminated clothes.  
General information after eye contact: Rinse with plenty of water and consult an eye physician.  
General information after inhalation: Take fresh air. Keep airways free.  
General information after swallowing: Consult an physician immediately. Drink plenty of water, but no milk or castor oil.

## 5. Fire fighting measures

Extinguishing media: Foam, powder, CO<sub>2</sub>, water.

Protective equipment: -

## 6. Accidental release measures

Personal precautions: Supply fresh air to working area.

Do not inhale vapours/aerosols.

Environmental precautions: Do not let liquid material come into contact with the environment.

Methods for cleaning up liquid material: Pick up the material.

## 7. Handling and storage

Handling procedures: This product should only be used by a dentist or a licensed professional.

Recommendation for fire and explosion protection:

No procedures, if correctly handled.

Storage: Always close the bottle immediately.

Protect from light, store in well ventilated rooms at room temperature.

Requirements at store rooms and containers: -

Requirements for storage with other products: Keep away from food stuffs.

Additional storage conditions: -

Storage classification: -

VBF-classification: -

## 8. Exposure controls/personal protection

Additional informations: -

Components with limits of value to be supervised at the workplace

CAS-No.: [78-93-3]

Name: ETHYL METHYL KETONE

Value: MAK 200 ml/m<sup>3</sup> or 590 mg/m<sup>3</sup>

CAS-No.: [75-09-2]

Name: DICHLOROMETHANE

Value: MAK 100 ml/m<sup>3</sup> or 350 mg/m<sup>3</sup>

Additional information: -

Personal protective equipment: Change contaminated clothes immediately.

General measures of protection

and hygiene: Do not eat, drink or smoke during handling;  
avoid contact with eyes or skin.

Respiration: Required when vapours/aerosols are generated.

Hands: Wear gloves and handle material carefully.

Eyes: Glasses are recommended.

Pregnancy: Group D

## 9. Physical and chemical properties

### Appearance

Form: Liquid

Colour: Blue green

Odour: Comparable to acetone.

### Information on change in the physical state (Value, unit, method)

Melting point/melting range: About - 123 °F

Boiling point/boiling range: About 104 °F

Flash point: About 34 °F

Autoignation temperature: > 941 °F DIN 51794

Danger of explosion: Lower limit of explosion 1,8 %; Upper limit 11,5 %

Density: 0,93 g/cm<sup>3</sup> (20 °C)

Vapour pressure: about 100 mbar

Viscosity: low viscosity

pH: neutral

Solubility in/miscibility with: Soluble in acetone and toluene and slightly in petrolether.

Water solubility: not soluble.

Content of solvents: -

Organic solvents: Ethylmethylketone, Dichloromethane.

Water: -

Content of solids: -

## 10. Stability and reactivity

Stability and reactivity: Avoid heat. Stable by proper use.

Incompatibility with other substances: Avoid contact with oxidation agents (e. g. Cr(VI)-oxide, H<sub>2</sub>O<sub>2</sub> and so on). Avoid contact with alkali metals, alkaline earth metals, metals in powder form.

## 11. Toxicological information

Acute toxicity: Small effects of toxicity.

Primary irritation skin: Irritating (Xi), degreasing effects of the skin; possibly followed by secondary inflammation; resorption possible.

Eye: Severe irritating.

Inhalation: In high amounts: narcosis, unconsciousness.

Ingestion: Nausea and vomiting.

Sensitization of product: Not observed

Additional toxicological information: Under proper conditions and consideration of the normal hygienic measures it can be handled without risks for health. But it may react irritating on eyes or skin or may cause allergic reactions.

## 12. Ecological information

General information: \_\_\_\_\_

Degrance: Do not let the material come in contact with the environment.

Fish toxicity: Do not let the material come in contact with the environment.

Classification of water endangerment: WGK = 2.

Additional information: Do not let liquid material come into contact with the environment.

### **13. Disposal consideration**

Recommendation: Use proper landfill disposal in accordance with local, state and federal regulations

Disposal key number: -

Uncleaned packaging: -

### **14. Transport information**

Transport information:

Landtransport RID/ADR, GGVS/GGVE: UN 1992 ENTZÜNDBARE FLÜSSIGKEIT, TOXISCH N. A. G. (ETHYLMETHYLKETON/DICHLORMETHAN), 3, III.

Sea transport ADN/ADNR, IMDG/GGV: UN 1992 FLAMMABLE LIQUID, TOXIC N. O. S. (ETHYL METHYL KETONE/DICHLOROMETHANE), 3.2, II. EmS: 3-07; MFAG: 340.

Air transport ICAO-TI, IATA-DGR, PAX: UN 1992 FLAMMABLE LIQUID, N. O. S. (ETHYL METHYL KETONE/DICHLOROMETHANE), 3, II.

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). National deviations in other countries are not considered.

### **15. Regulatory information**

Classification according to EEC-guidelines and GEFStoffV/EG:

Xi Irritating

R 11 Flammable

R 36 Irritation to eyes

R 40 Possible risks with irreversible effects

R 66 Repeated exposure may cause skin dryness or cracking

R 67 Vapours may cause drowsiness and dizziness

S 9 Store bottles at well ventilated rooms

S 23 Do not breathe vapours

S 25 Avoid contact with eyes

S 33 Prevent electrostatic charge

National prescriptions: National classification according to VbF: A I

### **16. Other informations**

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to product properties. However users of the product should satisfy themselves that the information given above is sufficient and correct for their circumstances of use.

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