

Material Safety Data Sheet

According to 91/155 EEC

Printing date 29.03.2006

Reviewed on 24.03.2005

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

· **Product details**

· **Trade name:** Pi-Ku-Plast Polymer

· **Article number:** 540 0016 7

· **Application of the substance / the preparation** Cold-polymerizing resin.

· **Manufacturer/Supplier:**

Bredent

Weißenhorners 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**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

	Acrylic polymer	 Xi,  O; R 7-43	2.5-10%
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide	 Xi,  E; R 2-36-43	1-5%

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

3 Hazards identification

· **Hazard description:**



Xi Irritant
O Oxidising

· **Information concerning particular hazards for human 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 7 May cause fire.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

· **Classification system:**

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

4 First aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **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 a doctor immediately.

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5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **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 heat and direct sunlight.

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:**

94-36-0 dibenzoyl peroxide	
OES	Long-term value: 5 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device when high concentrations are present.
- **Protection of hands:**



Protective gloves

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.

- **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.

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· **Eye protection:***Tightly sealed goggles*· **Body protection:** *Protective work clothing*

9 Physical and chemical properties

· **General Information**

Form:	<i>Powder</i>
Colour:	<i>White</i>
Odour:	<i>Odourless</i>

· **Change in condition**

Melting point/Melting range: *Undetermined.*
Boiling point/Boiling range: *Undetermined.*

· **Flash point:** *Not applicable.*· **Flammability (solid, gaseous):** *May cause fire.*· **Self-igniting:** *Product is not selfigniting.*· **Danger of explosion:** *Product does not present an explosion hazard.*· **Density:** *Not determined.*· **Solubility in / Miscibility with water:** *Insoluble.*· **Solvent content:**
Organic solvents: *0.0 %*

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.
To avoid thermal decomposition do not overheat.

· **Dangerous reactions** *No dangerous reactions known.*· **Dangerous decomposition products:** *Irritant gases/vapours*

11 Toxicological information

· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** *No irritant effect.*· **on the eye:** *Irritating effect.*· **Sensitization:** *Sensitization possible through skin contact.*· **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

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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**

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.*

14 Transport information

- **Maritime transport IMDG:**

- **Marine pollutant:** *No*

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:**

Xi Irritant

O Oxidising

- **Hazard-determining components of labelling:**

Acrylic polymer

Dibenzoylperoxid

- **Risk phrases:**

7 May cause fire.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

- **Safety phrases:**

3/7 Keep container tightly closed in a cool place.

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

36/37/39 Wear suitable protective clothing, 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.

- **Relevant R-phrases**

2 Risk of explosion by shock, friction, fire or other sources of ignition.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

7 May cause fire.

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

- **Contact:** *R & D*

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