



Material Safety Data Sheet

According to 91/155 EEC

Printing date 18.07.2005

Reviewed on 18.07.2005

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

- Product details
- Trade name: **Hardener Paste RZ**
- Application of the substance / the preparation
Hardener paste for all condensation-vulcanising silicones for the earmould impression technique.
- Manufacturer/Supplier:
Dreve Otoplastik GmbH
Max-Planck-Straße 31
59423 Unna / Germany
Tel.: ++49 2303 / 8807-0
Fax.: ++49 2303 / 82909
- Further Information obtainable from:
Department Research & Development
Tel.: ++49 2303 / 8807-14/-17/-569
- Information in case of emergency:
49(0)211/797-3350
Plant Fire Department Henkel

2 Composition/information on ingredients

- Chemical characterization
- Description: Mixture: consisting of the following components.

Dangerous components:

CAS: 18765-38-3	tetrakis (2-butoxyethoxy) silane Xi; R 38	10-25%
CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane Xn; R 20	10-25%
CAS: 7631-86-9 EINECS: 231-545-4	silicon dioxide, chemically prepared	2.5-10%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate C; R 22-34	2.5-10%
	di-n-butyl tin compound Xn; R 21/22-36/38-48-52/53	≤ 2.5%

3 Hazards identification

Hazard description:



Xi Irritant

Information concerning particular hazards for human and environment:

R 36/38 Irritating to eyes and skin.

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:

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

(Contd. on page 2)

GB

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Seek medical treatment in case of complaints.

(Contd. of page 1)

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.**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**Special hazards caused by the substance, its products of combustion or resulting gases:**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Protective equipment: No special measures required.**6 Accidental release measures****Person-related safety precautions:** Avoid contact with skin and eyes.**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.**Measures for cleaning/collecting:**

Pick up mechanically.

Dispose of the material collected according to regulations.

7 Handling and storage**Handling:****Information for safe handling:** Avoid contact with skin and eyes.**Information about fire - and explosion protection:** No special measures required.**Storage:****Requirements to be met by storerooms and receptacles:** Keep container tightly sealed.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

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:****8002-74-2 Paraffin waxes and Hydrocarbon waxes**OES Short-term value: 6 mg/m³Long-term value: 2 mg/m³**77-58-7 dibutyltin dilaurate**OES Short-term value: 0.2 mg/m³Long-term value: 0.1 mg/m³

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

(Contd. on page 3)

GB



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(Contd. of page 2)

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
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:** Not required.
- **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.

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.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**

Form:	Pasty
Colour:	Various colours
Odour:	Weak, characteristic

- **Change in condition**

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

- **Flash point:** > 90°C

- **Ignition temperature:** > 200°C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapour pressure at 20°C:** < 1 hPa

- **Density at 20°C:** 0.9-0.95 g/cm³

- **Solubility in / Miscibility with water:** Insoluble.

GB

(Contd. on page 4)

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(Contd. of page 3)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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

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

14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** Yes

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

(Contd. on page 5)

GB

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(Contd. of page 4)

• **Risk phrases:**

36/38 Irritating to eyes and skin.

• **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

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

36/37 Wear suitable protective clothing and gloves.

60 This material and its container must be disposed of as hazardous waste.

• **National regulations:**• **Technical instructions (air):**

Class	Share in %
II	≤ 2,5

• **Waterhazard class:** Water hazard class 2 (Self-assessment): 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**

20 Harmful by inhalation.

21/22 Harmful in contact with skin and if swallowed.

22 Harmful if swallowed.

34 Causes burns.

36/38 Irritating to eyes and skin.

38 Irritating to skin.

48 Danger of serious damage to health by prolonged exposure.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **Department issuing MSDS:** Department Research & Development• **Contact:** Dr. Thomas Veit, Dr. Reiner Altmann• **Data compared to the previous version altered.**