

## Material Safety Data Sheet

According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 05.11.2002

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

- Product details
- Trade name: Epifanes Epoxy Coating HS Component B (cure)
- Application of the substance / the preparation  
Coating compound/ Surface coating/ paint  
Cure for Epoxy Coating HS
- Manufacturer/Supplier:  
W.HEEREN & ZOON BV  
Postbus 166  
1430 AD Aalsmeer  
tel. +31-297-360366  
fax. +31-297-342078
- Further information obtainable from: Department Research & Development
- Information in case of emergency: See under Manufacturer/Supplier

**2 Composition/information on ingredients**

- Chemical characterization
- Description:  
Resin mixture  
Solvent mixture with pigment additives

## • Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67	15.679%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn; R 10-20/21-38	5.103%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. ☒ Xn, ☒ N; R 10-37-51/53-65-66	0.115%

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

**3 Hazards identification**

- Hazard description: Not applicable.
- 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 10 Flammable.  
R 67 Vapours may cause drowsiness and dizziness.
- 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: Generally the product does not irritate the skin.
- After eye contact:  
Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

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**5 Fire-fighting measures**

- Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:  
Water with full jet  
Water
- Protective equipment: Wear fully protective suit.

**6 Accidental release measures**

- Person-related safety precautions: 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).  
Ensure adequate ventilation.

**7 Handling and storage**

- Handling:
- Information for safe handling: Work only in fume cupboard.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles:  
No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:  
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:

125-86-4 n-butyl acetate
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OES	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
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546-93-0 Magnesite
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OES	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable dust **respirable dust
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1330-20-7 xylene
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OES	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk
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- Additional information:  
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.

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- Respiratory protection:  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Protection of hands:



Protective gloves

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. 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

### 9 Physical and chemical properties

#### • General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

#### • Change in condition

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

• Flash point: < 55°C

• Ignition temperature: 370°C

• Self-igniting: Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### • Explosion limits:

Lower:	1.2 Vol %
Upper:	7.5 Vol %

• Vapour pressure at 20°C: 10.7 hPa

• Density at 20°C: 1.62 g/cm<sup>3</sup>

• Solubility in / Miscibility with water: Insoluble.

#### • Viscosity:

Kinematic at 20°C: 200 s (ISO 6 mm)

#### • Solvent content:

Organic solvents: 27.5 %

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- Solids content: 72.5 % (VB% 1h150 C)

**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:
  - LD/LC50 values relevant for classification:  
64742-95-6 Solvent naphtha (petroleum), light arom.
- |            |          |                   |
|------------|----------|-------------------|
| Oral       | LD50     | >6800 mg/kg (rat) |
| Dermal     | LD50     | >3400 mg/kg (rab) |
| Inhalative | LC50/4 h | >10.2 mg/l (rat)  |
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.

**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.

**13 Disposal considerations**

- Product:
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

**14 Transport information**

- Land transport ADR/RID (cross-border)
- ADR/RID class: 3 F1 Flammable liquids.
- UN-Number: 1263
- Packaging group: III

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- Description of goods: 1263 PAINT

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT

### 15 Regulatory information

- Labelling according to EU guidelines:  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
  - Risk phrases:  
10 Flammable.  
67 Vapours may cause drowsiness and dizziness.
  - Safety phrases:  
2 Keep out of the reach of children.  
7 Keep container tightly closed.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe fumes/aerosol.
  - National regulations:
  - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| II    | 5.2        |
| III   | 15.8       |
- 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  
10 Flammable.

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- 20/21 Harmful by inhalation and in contact with skin.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

- Department issuing MSDS: Department Research & Development
- Contact: T.J.H.M. van Steenes

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