

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 28.01.2003

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




- Product details
- Trade name: Epoxy Primer Component B
- Application of the substance / the preparation
Paint
Hardener for Epoxy Primer
- 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 additives

• Dangerous components:

	Polyaminoamide	 Xi; R 41	56.0%
CAS: 1330-20-7 EINECS: 215-535-7	xylene	 Xn; R 10-20/21-38	36.0%
CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol	 Xn; R 10-22-37/38-41-67	8.0%

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

3 Hazards identification

- Hazard description:



Xn Harmful

- 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 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 37/38 Irritating to respiratory system and skin.
R 41 Risk of serious damage to eyes.
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.

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4 First-aid measures

- After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.

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: 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.
Ensure adequate ventilation.

7 Handling and storage

- Handling:
- Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- 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:
Store only in the original receptacle.
- 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:
X350209: xylene

OES	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm
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71-36-3 butan-1-ol

OES	Short-term value: 154 mg/m ³ , 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:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- 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. 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:



Tightly sealed goggles

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:	120°C

• Flash point:	27°C
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• Ignition temperature:	340°C
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• 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:	1.0 Vol %
Upper:	11.3 Vol %
• Vapour pressure at 20°C:	6.0 hPa
• Density at 20°C:	0.94 g/cm ³
• Solubility in / Miscibility with water:	Insoluble.
• pH-value (500 g/l) at 20°C:	10
• Viscosity:	
Dynamic at 20°C:	1100 mPas
• Solvent content:	
Organic solvents:	44.0 %
• Solids content:	56.0 % (VB% 1h150 C)

10 Stability and reactivity

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

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- 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

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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.
- Danger code (Kemler): 38
- UN-Number: 1263
- Packaging group: III
- Hazard label: 3
- Description of goods: 1263 PAINT RELATED MATERIAL

- 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 RELATED MATERIAL

- Air transport ICAO-TI and IATA-DGR:



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

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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
- Hazard-determining components of labelling:
xylene
- Risk phrases:
 - 10 Flammable.
 - 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 - 37/38 Irritating to respiratory system and skin.
 - 41 Risk of serious damage to eyes.
 - 67 Vapours may cause drowsiness and dizziness.
- Safety phrases:
 - 2 Keep out of the reach of children.
 - 23 Do not breathe fumes/aerosol.
 - 25 Avoid contact with eyes.
 - 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.
 - 43 In case of fire, use ... (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add 'Never use water').
 - 46 If swallowed, seek medical advice immediately and show this container or label.
 - 51 Use only in well-ventilated areas.
 - 64 If swallowed, rinse mouth with water (only if the person is conscious).
- National regulations:
- Technical instructions (air):

Class	Share in %
II	36.0
III	8.0
- 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.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 22 Harmful if swallowed.
 - 37/38 Irritating to respiratory system and skin.
 - 38 Irritating to skin.
 - 41 Risk of serious damage to eyes.
 - 67 Vapours may cause drowsiness and dizziness.
- Department issuing MSDS: Department Research & Development
- Contact: T.J.H.M. van Steenes