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1 Identification of the substance / preparation and of the company

Product: EpoPlast Hardener
Article number: 11 10 62
Registration number: not applicable
Use: Epoxide, Castable Mounting
Identified use: none
Method of operation: See product information.
Company: Buehler GmbH
 In der Steele 2
 D-40599 Düsseldorf / GERMANY

Phone: 0800 707 6273
Fax: 0800 707 6274
Homepage: www.buehler-met.de/en/
E-mail: sales@buehler.co.uk
Emergency phone: 0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
Responsible: Simonavicius@chemiebuero.de

2 Hazards identification

Physico-chemical hazards: See chapter 10.
Human health dangers: See R-phrases.
Environmental hazards: See R-phrases.
Other hazards: none
Hazard symbols:



Corrosive

R-phrases: R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
 R 43: May cause sensitisation by skin contact.
 R 34: Causes burns.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 68: Possible risk of irreversible effects.

3 Composition / Information on ingredients

| | |
|---|--|
| 1 - < 3% | Phenol |
| T-C-Xn-MutaCat.3, R23/24/25-34-48/20/21/22-68 CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2, ECBnr: | |
| 0,25 - < 2,5% | Nonylphenol |
| C-N-Rep.Cat. 3, R22-34-50/53-62-63 CAS: 25154-52-3, EINECS/ELINCS: 246-672-0, EU-INDEX: 601-053-00-8, ECBnr: | |
| 1 - 5% | N-(3-(Trimethoxysilyl)propyl)ethylenediamine |
| Xi, R38-41-43-52/53 CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, EU-INDEX: , ECBnr: | |
| 25 - < 50% | 3-Aminomethyl-3,5,5-trimethylcyclohexylamine |
| C, R21/22-34-43-52/53 CAS: 2855-13-2, EINECS/ELINCS: 220-666-8, EU-INDEX: 612-067-00-9, ECBnr: | |
| 12,5 - < 25% | Benzyl alcohol |
| Xn, R20/22 CAS: 100-51-6, EINECS/ELINCS: 202-859-9, EU-INDEX: 603-057-00-5, ECBnr: | |
| 5 - < 10% | m-Phenylenebis(methylamine) |
| C, R20/22-35-43-52/53 CAS: 1477-55-0, EINECS/ELINCS: 216-032-5, EU-INDEX: , ECBnr: | |

Comment on component parts: For the wording of the listed risk phrases refer to section 16.



4 First aid measures

| | |
|-----------------------------|---|
| General information: | Remove contaminated soaked clothing immediately and dispose of safely. |
| Inhalation: | Ensure supply of fresh air. In the event of symptoms seek for medical treatment. |
| Skin contact: | In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. |
| Eye contact: | In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice. |
| Ingestion: | Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. |
| Advice to doctor: | Treat symptomatically. |

5 Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media: | Dry powder. Water spray jet. Foam. Carbon dioxide. |
| Extinguishing media that must not be used: | Full water jet. |
| Special exposure hazards arising from the substance or preparation itself or combustion products: | Unknown risk of formation of toxic pyrolysis products. |
| Special protective equipment for firefighters: | Use self-contained breathing apparatus. |
| Additional information: | Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. |

6 Accidental release measures

| | |
|-----------------------------------|--|
| Personal precautions: | High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation. |
| Environmental precautions: | Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. |
| Methods for cleaning up: | Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations. |

7 Handling and storage

| | |
|---|---|
| Advice on safe handling: | Use only in well-ventilated areas. No special measures necessary if used correctly. |
| Advice on protection against fire and explosion: | No special measures necessary. |
| Requirements for storage rooms and vessels: | Keep only in original container. |
| Advice on storage compatibility: | Do not store together with oxidizing agents. |
| Further information on storage conditions: | Keep container tightly closed. Keep container in a well-ventilated place. Keep in a cool place. |

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8 Exposure controls / personal protection**Additional advice on system design:**

Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored:

| | |
|----------|--|
| 1 - < 3% | Phenol, 2ppm*, 7,8mg/m ³ *, General remarks: EC, skin; BEI: 250 mg/g (B,NS) |
|----------|--|

*** WEL: Workplace exposure limit**

Respiratory protection: not applicable

Hand protection: Butyl rubber, >120 min (EN 374).

Eye protection: Safety glasses.

Skin protection: Light protective clothing of plastic material.

General protective measures: Avoid contact with eyes and skin.
Do not inhale vapours.

Hygiene measures: Do not eat, drink, smoke or take drugs at work.
Remove soiled or soaked clothing immediately.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.

Delimitation and monitoring of the environmental exposition:

not applicable

9 Physical and chemical properties

Form: liquid

Color: yellow

Odor: characteristic

pH-value: not applicable

pH-value [1%]: not applicable

Boiling point [°C]: 205

Flash point [°C]: 101

Flammability [°C]: 380

Lower explosion limit: 1,2 Vol.%

Upper explosion limit: 13,0 Vol.%

Oxidizing properties: no

Vapour pressure [kPa]: 0,01 (20°C)

Density [g/ml]: 1,06

Density at [°C]: 20

Bulk density [kg/m³]: not applicable

Solubility in water: immiscible

Partition coefficient [n-octanol/water]:
not determined

Viscosity: 5000 mPa.s (20°C)

Relative vapour density determined in air:
not determined

Evaporation speed: not determined

Melting point [°C]: not determined

Autoignition temperature [°C]: not applicable

Decomposition temperature: >250

10 Stability and reactivity**Hazardous reactions:** Reactions with acids and strong oxidizing agents.**Hazardous decomposition products:**
No hazardous decomposition products known.

**11 Toxicological information**

| | |
|--------------------------------------|---|
| Acute oral toxicity: | not determinated |
| Acute dermal toxicity: | not determinated |
| Acute inhalational toxicity: | not determinated |
| Irritant effect on eye: | not determinated |
| Irritant effect on skin: | not determinated |
| Sensitization: | not determinated |
| Subacute toxicity: | not determinated |
| Chronic toxicity: | not determinated |
| Mutagenicity: | not determinated |
| Reproduction toxicity: | not determinated |
| Carcinogenicity: | not determinated |
| Experiences made in practice: | none |
| General remarks: | Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive. |

12 Ecological information

| | |
|---|--|
| Fish toxicity: | not determinated |
| Daphnia toxicity: | not determinated |
| Behaviour in environment compartments: | not determinated |
| Behaviour in sewage plant: | not determinated |
| Bacteria toxicity: | not determinated |
| Biological degradability: | not determinated |
| COD: | not determinated |
| BOD 5: | not determinated |
| AOX-advice: | not applicable |
| 2006/11/EC: | yes |
| General information: | The product was classified on the basis of the calculation procedure of the preparation directive. |

13 Disposal considerations

| | |
|---------------------------------|--|
| Product: | Disposal in an incineration plant in accordance with the regulations of the local authorities. Dispose of as hazardous waste. |
| Contaminated packaging: | Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling. |
| Waste no. (recommended): | 080409* |



14 Transport information

Classification according to ADR: UN 2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, m-Phenylenebis(methylamine)) 8, III

- **Classification Code:** C7

- **Label:**



- **ADR LQ** LQ7: 5l

- **ADR 1.1.3.6 (8.6):** Transport category (tunnel restriction code): 3 (E)

Classification according to IMDG: UN 2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, m-Phenylenebis(methylamine)) 8 III

- **EMS:** F-A, S-B

- **Label:**



- **IMDG Limited Quantities:** LQ: 5 l

Classification according to IATA: UN 2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine, m-Phenylenebis(methylamine) solution) 8 III

- **Label:**



15 Regulatory information

Exposure scenario: not applicable

Chemical safety report: not applicable

Labelling: The product is classified and labelled in accordance within EC-directives.

Hazard symbols:



Corrosive

Contains:

Phenol

N-(3-(Trimethoxysilyl)propyl)ethylenediamine
3-Aminomethyl-3,5,5-trimethylcyclohexylamine
m-Phenylenebis(methylamine)

R-phrases:

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R 43: May cause sensitisation by skin contact.

R 34: Causes burns.

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

R 68: Possible risk of irreversible effects.

S-phrases:

S 24/25: Avoid contact with skin and eyes.

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

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling:

none

Authorisation, TITEL VII:

not applicable

Restrictions, TITEL VIII:

not applicable

EEC-REGULATIONS:

1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.

TRANSPORT-REGULATIONS:

DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).

NATIONAL REGULATIONS

EH40/2005 Workplace exposure limits with amendments October 2007.

16 Other informations

R-phrases (Chapter 03):

- R 20/22: Harmful by inhalation and if swallowed.
- R 41: Risk of serious damage to eyes.
- R 62: Possible risk of impaired fertility.
- R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 63: Possible risk of harm to the unborn child.
- R 68: Possible risk of irreversible effects.
- R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 48/20/21/22: Harmful - danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- R 43: May cause sensitisation by skin contact.
- R 38: Irritating to skin.
- R 35: Causes severe burns.
- R 34: Causes burns.
- R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
- R 21/22: Harmful in contact with skin and if swallowed.
- R 22: Harmful if swallowed.

Observe employment restrictions for people:

yes

VOC (1999/13/CE):

17%

Customs Tariff:

not determinated