



1 Identification of the substance / preparation and of the company

EpoColor Hardener Article number: 20-8144-008

| | |
|-----------------------------|--|
| Use: | Castable (Cold) mounting Compound |
| 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: | Schroeder@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



Dangerous for the environment

| | |
|-------------------|---|
| R-phrases: | R 21/22: Harmful in contact with skin and if swallowed. R 34: Causes burns. R 37: Irritating to respiratory system. R 42/43: May cause sensitisation by inhalation and skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
|-------------------|---|

3 Composition / Information on ingredients

| Range [%] | Substance |
|-----------|---|
| 5 - < 15 | Triphenyl phosphite Registration: CAS: 101-02-0, EINECS/ELINCS: 202-908-4, EU-INDEX: 015-105-00-7, ECBnr: GHS/CLP: EEC: N-Xi, R36/38-50/53 |
| 50 - < 80 | Polyamine Registration: CAS: 28063-82-3, EINECS/ELINCS: Polymer, EU-INDEX: , ECBnr: GHS/CLP: EEC: C, R34-37-42/43 |
| 25 - < 40 | 2,2'-Iminodiethylamine Registration: CAS: 111-40-0, EINECS/ELINCS: 203-865-4, EU-INDEX: 612-058-00-x, ECBnr: GHS/CLP: EEC: C, R21/22-34-43 |

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| Comment on component parts: | For the wording of the listed risk phrases refer to section 16. |
| Substances of Very High Concern - SVHC: | There are contained no substances which are named in the list SVHC (Candidate List of Substances of Very High Concern for authorization). |

4 First aid measures

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| 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**

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| Suitable extinguishing media: | Foam. Water spray jet. Dry powder. 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. Wear full protective suit. |
| Additional information: | Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. |

6 Accidental release measures

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| 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

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| 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. |

8 Exposure controls / personal protection

Additional advice on system design: Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

| Range [%] | Substance / WEL: Workplace exposure limit |
|-----------|--|
| 25 - < 40 | 2,2'-Iminodiethylamine / 1ppm, 4,3mg/m ³ , Sk |

| | |
|---|--|
| Respiratory protection: | not applicable |
| Hand protection: | Nitrile rubber, >480 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. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. |
| Delimitation and monitoring of the environmental exposition: | not determined |



9 Physical and chemical properties

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| Form: | liquid |
| Color: | yellow |
| Odor: | characteristic |
| pH-value: | alkaline |
| pH-value [1%]: | not determined |
| Boiling point [°C]: | 207 |
| Flash point [°C]: | 100 |
| Flammability [°C]: | not determined |
| Lower explosion limit: | not applicable |
| Upper explosion limit: | not applicable |
| Oxidizing properties: | no |
| Vapour pressure [kPa]: | not determined |
| Density [g/ml]: | 1,0291 |
| Bulk density [kg/m³]: | not applicable |
| Solubility in water: | partially miscible |
| Partition coefficient [n-octanol/water]: | not determined |
| Viscosity: | not applicable |
| Relative vapour density determined in air: | > 1 |
| Evaporation speed: | < 1 |
| Melting point [°C]: | not determined |
| Autoignition temperature [°C]: | not applicable |
| Decomposition temperature: | not determined |

10 Stability and reactivity

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| Hazardous reactions: | Reactions with oxidizing agents. |
| Hazardous decomposition products: | No hazardous decomposition products known. |

11 Toxicological information

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| Acute oral toxicity: | not determined |
| Acute dermal toxicity: | not determined |
| Acute inhalational toxicity: | not determined |
| Irritant effect on eye: | not determined |
| Irritant effect on skin: | not determined |
| Sensitization: | not determined |
| Subacute toxicity: | not determined |
| Chronic toxicity: | not determined |
| Mutagenicity: | not determined |
| Reproduction toxicity: | not determined |
| Carcinogenicity: | not determined |
| 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

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| Fish toxicity: | not determined |
| Daphnia toxicity: | not determined |
| Behaviour in environment compartments: | not determined |
| Behaviour in sewage plant: | not determined |
| Bacteria toxicity: | not determined |
| Biological degradability: | not determined |
| COD: | not determined |
| BOD 5: | not determined |
| AOX-advice: | No dangerous components. |
| 2006/11/EC: | yes |
| General information: | The product was classified on the basis of the calculation procedure of the preparation directive. |



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13 Disposal considerations

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| 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

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| Classification according to ADR: | UN 2079 Diethylenetriamine, solution 8 (N), II |
| - Classification Code: | C7 |
| - Label: | |
| - ADR LQ | LQ22 1I |
| - ADR 1.1.3.6 (8.6): | Transport category (tunnel restriction code): 2 (E) |
| Classification according to IMDG: | UN 2079 Diethylenetriamine, solution (Triphenyl phosphite) 8 II MARINE POLLUTANT |
| - EMS | F-A, S-B |
| - Label: | |
| - IMDG LQ: | LQ: 1 I |
| Classification according to IATA: | UN 2079 Diethylenetriamine, solution 8 II |
| - Label: | |

15 Regulatory information

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| Exposure scenario: | not applicable |
| Chemical safety report: | not applicable |
| Labelling: | The product is classified and labelled in accordance within EC-directives. |
| Hazard symbols: | |
| Contains: | Corrosive Polyamine 2,2'-Iminodiethylamine |
| R-phrases: | R 21/22: Harmful in contact with skin and if swallowed. R 34: Causes burns. R 37: Irritating to respiratory system. R 42/43: May cause sensitisation by inhalation and skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrases: | S 23.3: Do not breathe vapour. 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). S 61: Avoid release to the environment. Refer to special instructions, safety data sheets. |
| 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 (Reach); 1272/2008; 75/324/EWG (2008/47/EG) |
| TRANSPORT-REGULATIONS: | DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010). |
| NATIONAL REGULATIONS (GB) | EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4 |



16 Other informations

R-phrases (Chapter 03):

R 36/38: Irritating to eyes and skin.

R 34: Causes burns.

R 37: Irritating to respiratory system.

R 42/43: May cause sensitisation by inhalation and skin contact.

R 43: May cause sensitisation by skin contact.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Modified position:

Chapter: 14 been added:

Observe employment restrictions for people:

yes

VOC (1999/13/CE):

not applicable

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