

Buehler EpoHeat Hardener
Article number: 20-8122-016
Buehler GmbH
D-40599 Düsseldorf



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1 Identification of the substance / preparation and of the company

Buehler EpoHeat Hardener Article number: 20-8122-016

Use: Epoxy activator
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.
Other hazards: none
Hazard symbols:


 Corrosive Dangerous for the environment
R-phrases: R 35: Causes severe burns.
 R 22: Harmful if swallowed.
 R 37: Irritating to respiratory system.
 R 43: May cause sensitisation by skin contact.
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Labelling 1272/2008 GHS/CLP:



Signal word: DANGER
Hazard statements: H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

3 Composition / Information on ingredients

Range [%]	Substance
100	4,4'-Methylenebis(cyclohexylamine)
	CAS: 1761-71-3, EINECS/ELINCS: 217-168-8 EU-INDEX: ECB-Nr.:
	GHS/CLP: Acute Tox. 4, Skin Corr. 1A, STOT SE 3, Skin Sens. 1, Aquatic Chronic 2, H302, H314, H335, H317, H411
	EEC: C-N, R35-22-37-43-51/53

Comment on component parts: Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
 For the wording of the listed risk phrases refer to section 16.

4 First aid measures

General information:	Change soaked clothing.
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:	Foam. Dry powder. Water spray jet. 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

Personal precautions:	Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.
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:	No special measures necessary if used correctly. Use only in well-ventilated areas.
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. Store in a dry 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)	not applicable
Respiratory protection:	not applicable
Hand protection:	Nitrile rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
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. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Hygiene measures:	Remove soiled or soaked clothing immediately. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
Delimitation and monitoring of the environmental exposition:	not determined

9 Physical and chemical properties

Form:	liquid
Color:	clear
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	not determined
Flash point [°C]:	112
Flammability [°C]:	not determined
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidizing properties:	no
Vapour pressure [kPa]:	< 0,013 (21°C)
Density [g/ml]:	0,96 (20°C / 68,0°F)
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:	not determined
Evaporation speed:	not determined
Melting point [°C]:	not determined
Autoignition temperature [°C]:	not determined
Decomposition temperature:	not determined

10 Stability and reactivity

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

11 Toxicological information

Acute oral toxicity:	LD 50: 625 mg/kg Rat
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	Product is caustic.
Irritant effect on skin:	Product is caustic.
Sensitization:	Sensitizing.
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:	not applicable






12 Ecological information

Fish toxicity:	Leuciscus idus: 47-<100 mg/l 96h
Daphnia toxicity:	Daphnia Magna EC 50: 6,84 mg/l 48h
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:	not applicable
2006/11/EC:	yes
General information:	not applicable

13 Disposal considerations

Product:	Disposal in an incineration plant in accordance with the regulations of the local authorities. Coordinate disposal with the authorities if necessary.
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 Polyamines, liquid, corrosive, n.o.s. (4,4'-Methylenebis(cyclohexylamine)) 8 N II
- Classification Code:	C7
- Label:	 
- ADR LQ	LQ22: 1 I
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 2 (E)
Classification according to IMDG:	UN 2735 Polyamines, liquid, corrosive, n.o.s. (4,4'-Methylenebis(cyclohexylamine)) 8 II MARINE POLLUTANT
- EMS	F-A, S-B
- Label:	 
- IMDG LQ	1 I
Classification according to IATA:	UN 2735 Polyamines, liquid, corrosive, n.o.s. (4,4'-Methylenebis(cyclohexylamine)) 8 II
- Label:	



16 Other informations

R-phrases (Chapter 03):

R 35: Causes severe burns.
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R 37: Irritating to respiratory system.
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Hazard statements (Chapter 03):

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Observe employment restrictions for people:

yes

VOC (1999/13/CE):

not applicable

Disclaimer: 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.

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