



BE SURE. BUILD SURE.

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## Safety Data Sheet according to P.U.(A) 310/2013

Printing date 13.05.2023


Version number 23

Revision: 13.05.2023

### 1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** MC-Fastpack EP solid - Komponente B
- **Recommended use of the chemical and restrictions on use** No further relevant information available.
- **Application of the substance / the mixture**  
Epoxy coating  
Epoxy impregnation  
Hardening agent/ Curing agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de  
  
MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533
- **Informing department:** msds@mc-bauchemie.de

### 2 Hazard identification

- **Classification of the substance or mixture**  
Skin Corr. 1 H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause allergic skin reaction.  
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**  
  
GHS05 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:** 1,3-Cyclohexanedimethanamine  
crystalline silica  
polymer amine terminated  
Benzyl alcohol

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- **Hazard statements**  
3-aminomethyl-3,5,5-trimethylcyclohexylamine  
2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid  
Formaldehyde, polymers with diethylenetriamine and styrenated phenol  
Causes severe skin burns and eye damage.  
May cause allergic skin reaction.  
Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Harmful to aquatic life with long lasting effects.  
Do not breathe dusts or mists.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see on this label).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and information of the ingredients of the hazardous chemical

- **Chemical characterisation: Mixtures**
- **Description:** Binding agent with colouring agents.  
Mixture consisting of the following components.

· **Dangerous components:**

14808-60-7	crystalline silica STOT RE 1, H372	30-60%
2579-20-6	1,3-Cyclohexanedimethanamine Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥10-<25%
61788-44-1	2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥10-<25%
	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥3-<10%
100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	<10%
69-72-7	salicylic acid Repr. 2, H361; Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<2.5%

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1293368-66-7	Formaldehyde, polymers with diethylenetriamine and styrenated phenol Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	≥1-<2.5%
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.1-<1%
1477-55-0	m-phenylenebis(methylamine) Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Seek medical treatment.
- **After swallowing** Rinse out mouth and then drink plenty of water. Instantly call for doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Danger** Danger of gastric perforation.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture** Can be released in case of fire  
Carbon monoxide (CO)  
Nitrogen oxides (NOx)  
(Traces)
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

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#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
- **Environmental precautions:**
  - Wear protective equipment. Keep unprotected persons away.
  - Do not allow to enter drainage system, surface or ground water.
  - Inform respective authorities in case product reaches water or sewage system.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **Reference to other sections** See Section 8 for information on personal protection equipment.  
See Section 7 for information on safe handling

#### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** Store in cool, dry place in tightly closed containers.  
Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from heat and direct sunlight.  
Keep container tightly sealed.
- **Storage class** 6.1C
- **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

· **Components with critical values that require monitoring at the workplace:**

14808-60-7 crystalline silica

PEL (Malaysia)	Long-term value: 0.1* mg/m <sup>3</sup> *Pecahan ternafaskan
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**· DNELs**

**2579-20-6 1,3-Cyclohexanedimethanamine**

Inhalative DNEL 0.00947 mg/m<sup>3</sup> (Workers)

**100-51-6 Benzyl alcohol**

Oral DNEL 4 mg/kg bw/Tag (ArL)  
20 mg/kg bw/Tag (Ark)

Dermal DNEL 8 mg/kg bw/day (ArL)  
40 mg/kg bw/day (Ark)

Inhalative DNEL 22 mg/m<sup>3</sup> (ArL)  
110 mg/m<sup>3</sup> (Ark)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral DNEL 0.526 mg/kg bw/Tag (ArL)

Inhalative DNEL 20.1 mg/m<sup>3</sup> (ArL)

**1477-55-0 m-phenylenebis(methylamine)**

Dermal DNEL 0.33 mg/kg bw/day (Workers)

Inhalative DNEL 1.2 mg/m<sup>3</sup> (Workers)

**· PNECs**

**2579-20-6 1,3-Cyclohexanedimethanamine**

PNEC 0.003 mg/l (Mew)

PNEC 0.033 mg/l (Fresh water)

**100-51-6 Benzyl alcohol**

PNEC 0.527 mg/l (Marine water sediment)  
0.1 mg/l (Mew)

1 mg/l (Fresh water sediment)

PNEC 0.456 mg/kg dwt (Bod)  
5.27 mg/kg dwt (Fresh water sediment)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

PNEC 0.006 mg/l (Mew)

0.06 mg/l (Suw)

PNEC 0.578 mg/kg dwt (Sediment)  
5.784 mg/kg dwt (Fresh water sediment)

**1477-55-0 m-phenylenebis(methylamine)**

PNEC 10 mg/l (Kla)

0.009 mg/l (Mew)

0.094 mg/l (Suw)

PNEC 0.045 mg/kg dwt (Bod)  
0.43 mg/kg dwt (Marine water sediment)  
0.43 mg/kg dwt (Fresh water sediment)

**· Additional information:** The lists that were valid during the compilation were used as basis.  
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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Protection of hands:**  
Protective gloves.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Safety glasses  
Tightly sealed safety glasses.
- **Body protection:**  
Protective work clothing.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Colour: Black
  - Smell: Amine-like
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/freezing point: Not determined
  - Initial boiling point and boiling range: 205 °C
- **Flash point:** 101 °C
- **Auto-ignition temperature** 380 °C
- **Auto-ignition temperature** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Steam pressure at 20 °C:** 0.1 hPa

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· <b>Density at 20 °C</b>	1.5 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Partly miscible
· <b>Viscosity:</b> dynamic at 20 °C: kinematic:	40000 mPas Not determined.
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

· <b>Reactivity</b>	No further relevant information available.
· <b>Chemical stability</b>	
· <b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
· <b>Possibility of hazardous reactions</b>	No dangerous reactions known
· <b>Conditions to avoid</b>	No further relevant information available.
· <b>Incompatible materials:</b>	No further relevant information available.
· <b>Hazardous decomposition products:</b>	No dangerous decomposition products known

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:**

<b>2579-20-6 1,3-Cyclohexanedimethanamine</b>		
Oral	LD50	700 mg/kg (rat)
Dermal	LD50	1700 mg/kg (rat)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	200 mg/kg (mouse) 200 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)
<b>69-72-7 salicylic acid</b>		
Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>		
Oral	LD50	1030 mg/kg (ATE)

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Dermal	NOAEL LD50	1030 mg/kg (rat) 250 mg/kg (rat) 1840 mg/kg (rabbit) >2000 mg/kg (rat)
<b>1477-55-0 m-phenylenebis(methylamine)</b>		
Oral	LD50	1180 mg/kg (mouse)
Dermal	LD50	930 mg/kg (rat) >3100 mg/kg (rabbit)

· **Primary irritant effect:**

· **Skin corrosion or irritation**

Caustic effect on skin and mucous membranes.

· **Serious eye damage or eye irritation**

Strong caustic effect.

· **Respiratory / skin sensitization**

Sensitization possible by skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**2579-20-6 1,3-Cyclohexanedimethanamine**

EC50/24h 90 mg/l (*Pseudokirchneriella subcapitata*)

EC50 90 mg/l (*Pseudomonas putida*)

LC50/48h 130 mg/l (*Leucidus idus*)

**100-51-6 Benzyl alcohol**

IC50/72h 700 mg/l (algae)

LC50/96h 460 mg/l (*Pimephales promelas*)

10 mg/l (*Lepomis macrochirus*)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

LC50/96h 110 mg/l (*Leucidus idus*)

EC50 1120 mg/l (*Pseudomonas putida*)

EC50/48h 23 mg/l (*Daphnia magna*)

NOEC 1.5 mg/l (*Desmodesmus subspicatus*)

3 mg/l (*Daphnia magna*)

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ErC50/72h >50 mg/l (Desmodesmus subspicatus)

**1477-55-0 m-phenylenebis(methylamine)**

IC50/72h 12 mg/l (algae)

EC50/72h 12 mg/l (Scenedesmus subspicatus)

LC50/96h >100 mg/l (Oncorhynchus mykiss)

87.6 mg/l (Ory)

EC50/48h 15.2 mg/l (Daphnia magna)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal information

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### 14 Transportation information

- **UN-Number**
- **ADR, IMDG, IATA** UN2735
- **UN proper shipping name**
- **ADR, IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine)
- **Transport hazard class(es)**
- **ADR**
- **Class** 8 (C7) Corrosive substances.
- **Label** 8
- **IMDG, IATA**
- **Class** 8 Corrosive substances.

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· <b>Label</b>	8
· <b>Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Kemler Number:</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Segregation Code</b>	Warning: Corrosive substances. 80 F-A, S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-CYCLOHEXANEDIMETHANAMINE), 8, II

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **EHS reference list**

100-51-6	Benzyl alcohol
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine

· **Directive 2012/18/EU**

· **Named dangerous**

**substances - ANNEX I**

None of the ingredients is listed.

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing data specification sheet:**

*Environment protection department.*

· **Contact:**

· **Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

*ICAO: International Civil Aviation Organisation*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 4: Acute toxicity - oral - Category 4*

*Skin Corr. 1: Skin corrosion or irritation - Category 1*

*Skin Irrit. 2: Skin corrosion or irritation - Category 2*

*Eye Dam. 1: Serious eye damage or eye irritation - Category 1*

*Eye Irrit. 2: Serious eye damage or eye irritation - Category 2*

*Skin Sens. 1: Skin sensitization - Category 1*

*Repr. 2: Reproductive toxicity - Category 2*

*STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard - Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard - Category 3*

· **\* Data compared to the previous version altered.**

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