



BE SURE. BUILD SURE.

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

Printing date 14.04.2025



Version number 41

Revision: 14.04.2025

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** **MC-Fastpack 1264 compact - Komponente B**
- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*
- **Application of the substance / the mixture** *Epoxy resin
Injektion
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**
*Acute Tox. 4 H302 Harmful if swallowed.
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 SE 3 H335 May cause respiratory irritation.
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
- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *2-Methylpentamethylenediamine
Isophorone diamine*

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- **Hazard statements**
Benzyl alcohol
Polymer with amino-functional groups
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P260 Do not breathe dusts or mists.
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **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:**

CAS: 15520-10-2	2-Methylpentamethylenediamine Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	30-60%
CAS: 2855-13-2	Isophorone diamine Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	30-60%
	Polymer with amino-functional groups Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	10-30%
CAS: 100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	10-30%
CAS: 9046-10-0	Polyoxypropylenediamine Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥5-<10%
CAS: 90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<1.5%

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

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4 First-aid measures

- **Description of first aid measures**
- **General information** *Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.*
- **After inhalation** *Supply fresh air; seek medical advice if symptoms occur. If unconscious, place in recovery position and seek medical advice.*
- **After skin contact** *In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.*
- **After eye contact** *Rinse opened eye for several minutes under running water. Call a doctor immediately*
- **After swallowing** *Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If symptoms persist, consult a doctor.*
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** *Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.*

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *No special measures required.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** *Wear protective equipment. Keep unprotected persons away.*
- **Environmental precautions:** *Prevent material from reaching sewage system, holes and cellars.*
- **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. Ensure adequate ventilation.*
- **Reference to other sections** *See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.*

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7 Handling and storage

· **Handling**

· **Precautions for safe handling** *Open and handle containers with care. Ventilation measures are required in rooms without sufficient air exchange (e.g. closed rooms), because the occupational exposure limit values (see chapter 8) could be exceeded. This must be avoided. Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins.*

· **Information about protection against explosions and fires:** *Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.*

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:** *No special requirements.*

· **Further information about storage conditions:** *Keep container tightly closed in a well-ventilated place.*

· **Storage class** *8A*

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:** *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

· **DNELs**

CAS: 15520-10-2 2-Methylpentamethylenediamine

Dermal DNEL 1.5 mg/kg bw/day (ArL)

Inhalative DNEL 0.25 mg/m³ (ArL)

0.5 mg/m³ (Ark)

CAS: 2855-13-2 Isophorone diamine

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

Inhalative DNEL 20.1 mg/m³ (ArL)

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CAS: 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 ³ (ArL) 110 mg/m ³ (Ark)

CAS: 9046-10-0 Polyoxypropylenediamine

Oral	DNEL	0.04 mg/kg bw/Tag (ArL)
Dermal	DNEL	2.5 mg/kg bw/day (ArL)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

Inhalative	DNEL	0.31 mg/m ³ (ArL)
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· PNECs

CAS: 15520-10-2 2-Methylpentamethylenediamine

PNEC	0.042 mg/l (Mew) 0.42 mg/l (Freshwater)
------	--------------------------------------------

CAS: 2855-13-2 Isophorone diamine

PNEC	0.006 mg/l (Mew) 0.06 mg/l (Freshwater)
PNEC	0.578 mg/kg dwt (Sediment) 5.784 mg/kg dwt (Fresh water sediment)

CAS: 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)

CAS: 9046-10-0 Polyoxypropylenediamine

PNEC	7.5 mg/l (Sewage Treatment Plant) 0.015 mg/l (Fresh water)
PNEC	0.0176 mg/kg dwt (Bod) 0.125 mg/kg dwt (Sediment) 0.132 mg/kg dwt (Fresh water sediment)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

PNEC	0.2 mg/l (Sewage Treatment Plant) 0.0084 mg/l (Mew) 0.084 mg/l (Freshwater)
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· 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 food, drink and animal feed.
 Remove soiled, soaked clothing immediately.
 Wash hands before breaks and at the end of work.
 Avoid contact with eyes and skin.

- **Breathing equipment:**

If workplace limit values cannot be complied with by ventilation measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction with BGR 190.

- **Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

You can find help with choosing gloves on the website <https://www.bgbau.de/fileadmin/Gisbau/Projekte.pdf>
 For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material". The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Nitrile rubber
 Recommended material thickness: ≥ 0.4 mm

- **Penetration time of glove material**

The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.

The following applies to all other gloves:

The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.

Nitrile rubber
 Material thickness: ≥ 0.40 mm
 Penetration time: ≥ 480 min

Butyl rubber:
 Material thickness: ≥ 0.5 mm
 Penetration time: ≥ 480 min

- **Eye protection:**

Tight-fitting safety goggles.
 Safety goggles.

- **Body protection:**

Protective clothing
 Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the

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lower leg area should be protected by protective trousers.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Transparent

· **Smell:** Amine-like

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point Not determined

Initial boiling point and boiling range 193 °C

· **Flash point:** 82 °C

· **Auto-ignition temperature** 435 °C

· **Ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

Lower: 1.3 Vol %

Upper: 13 Vol %

· **Steam pressure at 20 °C:** 0.1 hPa

· **Vapour pressure at 50 °C:** 0.7 hPa

· **Density at 20 °C** 0.94 g/cm³

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

· **Viscosity:**

dynamic: Not determined.

kinematic at 20 °C: 19 s (DIN 53211/4)

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known

· **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

CAS: 15520-10-2 2-Methylpentamethylenediamine

Oral	LD50	1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative	LC50/4 h	19.6 mg/l (rat)

CAS: 2855-13-2 Isophorone diamine

Oral	LD50	1030 mg/kg (ATE) 1030 mg/kg (rat)
Dermal	NOAEL	250 mg/kg (rat)
	LD50	1840 mg/kg (rabbit) >2000 mg/kg (rat)
		1840 mg/kg (rabbit)

CAS: 100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	200 mg/kg (mouse) 200 mg/kg (rat)
	Dermal	LD50
Inhalative	LC50/4 h	>4178 mg/l (rat)

CAS: 9046-10-0 Polyoxypropylenediamine

Oral	LD50	2855 mg/kg (Rat) 2885 mg/kg (rat)
Dermal	LD50	2980 mg/kg (Kan) 2980 mg/kg (rabbit)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)

- **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** No sensitizing effect known.

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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:

CAS: 15520-10-2 2-Methylpentamethylenediamine

EC50/72h	>100 mg/l (algae)
EC50	1825 mg/l (fish)
EC50/48h	19.8 mg/l (Daphnia magna)

CAS: 2855-13-2 Isophorone diamine

LC50/96h	110 mg/l (fish)
	110 mg/l (Leucidus idus)
EC50	1120 mg/l (Pseudomonas putida)
EC50/48h	23 mg/l (daphnia)
	23 mg/l (Daphnia magna)
NOEC	1.5 mg/l (Desmodesmus subspicatus)
	3 mg/l (Daphnia magna)
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)
	>50 mg/l (algae)

CAS: 100-51-6 Benzyl alcohol

IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)

CAS: 9046-10-0 Polyoxypropylenediamine

EC50/72h	15 mg/l (algae)
LC50/96h	>15 mg/l (fish)
EC50/48h	80 mg/l (daphnia)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

EC50/72h	84 mg/l (Desmodesmus subspicatus)
LC50/96h	175 mg/l (Cyp)
	718 mg/l (Daphnia magna)
NOEC	2 mg/l (BEL)
	6.25 mg/l (Desmodesmus subspicatus)

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- **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. (2-Methylpentamethylenediamine, ISOPHORONEDIAMINE)
· Transport hazard class(es)	
· ADR	
· Class	8 (C7) Corrosive substances.
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· Packing group	
· ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances.

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· Kemler Number:	80
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· Remarks:	1 kg Gebinde: Begrenzte Mengen
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (2-METHYLPENTAMETHYLENEDIAMINE, ISOPHORONEDIAMINE), 8, II

15 Regulatory information

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

· **EHS reference list**

CAS: 2855-13-2	Isophorone diamine
CAS: 100-51-6	Benzyl alcohol
CAS: 90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol

· **Directive 2012/18/EU**

· **Named dangerous**

substances - ANNEX I

None of the ingredients is listed.

· **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.

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· **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

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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

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

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