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

Printing date 12.07.2024 Version number 47 Revision: 12.07.2024

1 Identification of the hazardous chemical and of the supplier

· Product identifier

Trade name MC-DUR 1200 - Komponente B

Recommended use of the chemical and restrictions on

use Application of the substance

/ the mixture Epoxy coating

Hardening agent/ Curing agent

No further relevant information available.

· 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.

· 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: Benzyl alcohol

Isophorone diamine polymer amine terminated Polyoxypropylenediamine Tetraethylenepentamine

· Hazard statements H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H317 May cause allergic skin reaction.

• **Precautionary statements** P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

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.

Immediately call a POISON CENTER/doctor.

P321 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:** Mixture consisting of the following components.

P310

Dangerous comp	oonents:	
CAS: 100-51-6	Benzyl alcohol	30-60%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	1
	polymer amine terminated	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	1
CAS: 2855-13-2	Isophorone diamine	≥10-<25%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 9046-10-0	Polyoxypropylenediamine	≥5-<10%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	1
CAS: 90640-66-7	Tetraethylenepentamine	≥3-<5%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	1
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥3-<5%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	1

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

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.

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· 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:** Put on breathing apparatus.

6 Accidental release measures

· Personal precautions, protective equipment and

emergency procedures
• Environmental precautions:

Wear protective equipment. Keep unprotected persons away. 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).

Use neutralising agent.

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.

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

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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: None.
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.

CAS: 100	-51-6 B	enzyl 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/m³ (ArL)	
		110 mg/m³ (Ark)	
CAS: 285	5-13-2	sophorone diamine	
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)	
Inhalative	DNEL	20.1 mg/m³ (ArL)	
CAS: 904	6-10-0	Polyoxypropylenediamine	
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)	
Dermal	DNEL	2.5 mg/kg bw/day (ArL)	
CAS: 90-7	72-2 2,4	,6-tris(dimethylaminomethyl)phenol	
Inhalative	DNEL	0.31 mg/m³ (ArL)	
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(Contd. of page 4) · PNECs 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: 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: 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-tris(dimethylaminomethyl)phenol PNEC 0.2 mg/l (Sewage Treatment Plant)

· Additional information:

0.0084 mg/l (Mew)

0.084 mg/l (Freshwater)

· Personal protective equipment · General protective and

· Exposure controls

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.

If workplace limit values cannot be complied with by ventilation · Breathing equipment:

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

The lists that were valid during the compilation were used as basis.

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". (Contd. on page 6)



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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 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

lower leg area should be protected by protective trousers.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Eye protection:

Form: Fluid
Colour: Yellow
Smell: Characteristic

· **pH-value:**Not applicable.
Not determined.

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· Change in condition

Melting point/freezing point Not determined

Initial boiling point and boiling range 205.4 °C

· Flash point: 101 °C

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Auto-ignition temperature	380 °C	
Auto-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	1.03 g/cm³	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
· 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:

· Possibility of hazardous

reactions

Conditions to avoid

· Incompatible materials:
· Hazardous decomposition

products:

No dangerous reactions known

No further relevant information available.

No further relevant information available.

No dangerous decomposition products known

No decomposition if used according to specifications.

11 Toxicological information

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

CAS: 100-51-6 Benzyl alcohol

Oral LD50 1230 mg/kg (rat)

NOAEL 2nd year study 200 mg/kg (mouse)

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		200 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)
CAS: 285	5-13-2 Isophorone dian	nine
Oral	LD50	1030 mg/kg (ATE)
		1030 mg/kg (rat)
	NOAEL	250 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rabbit)
		>2000 mg/kg (rat)
CAS: 904	6-10-0 Polyoxypropylei	nediamine
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
CAS: 90-7	2-2 2,4,6-tris(dimethyla	aminomethyl)phenol
Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)

· Primary irritant effect:

· Skin corrosion or irritation

· Serious eye damage or eye irritation

· Respiratory / skin

sensitization

· Additional toxicological

information:

Caustic effect on skin and mucous membranes.

Strong caustic effect.

Sensitization possible by skin contact.

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 to	xicity:	
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: 2855	-13-2 Isophorone diamine	
LC50/96h	110 mg/l (Leucidus idus)	
EC50	1120 mg/l (Pseudomonas putida)	
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EC50/48h | 23 mg/l (Daphnia magna)

NOEC 1.5 mg/l (Desmodesmus subspicatus)

3 mg/l (Daphnia magna)

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

CAS: 90-72-2 2,4,6-tris(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)

Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 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** UN2289

· UN proper shipping name

· ADR, IMDG, IATA ISOPHORONEDIAMINE solution

· Transport hazard class(es)

· ADR

Class 8 (C7) Corrosive substances.

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Label	8
IMDG, IATA	
Class	8 Corrosive substances.
Label	8
Packing group	
ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F-A,S-B
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
_	Maximum net quantity per outer packaging: 1000 ml
Transport category	3_
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IATA .	
Remarks:	Passagierflugzeug: Verpackungsvorschrift 81
	(Einzelverpackungen nicht erlaubt
	Verpackungsgruppe II
	Frachtflugzeug : Verpackungsvorschrift 820
UN "Model Regulation":	UN 2289 ISOPHORONEDIAMINE SOLUTION, 8, III

15 Regulatory information

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

· EHS reference list

CAS: 100-51-6 Benzyl alcohol

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CAS: 2855-13-2 Isophorone diamine

CAS: 90-72-2 2,4,6-tris(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.

· 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

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

Category 3

* Data compared to the previous version altered.