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Safety data sheet according to UK REACH

Printing date 12.07.2024 Version number 47 (replaces version 46) Revision: 12.07.2024

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name MC-DUR 1200 - Komponente B

908 · Article number:

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against No further relevant information available.

· Application of the substance

/ the mixture Epoxy coating

Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

MC-Bauchemie Müller GmbH & Co. KG Manufacturer/Supplier:

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:

number:

· 1.4 Emergency telephone

Tel.: +49 / (0)700 24112112 (MCR)

Tel.: +1 872 5888271 (MCR)

msds@mc-bauchemie.de

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

Aguatic Chronic 3 H412 Harmful to aguatic life with long lasting effects.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



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· Signal word

Danger

· Hazard-determining

components of labelling:

Benzyl alcohol Isophorone diamine polymer amine terminated

Polyoxypropylenediamine Tetraethylenepentamine

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or

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.

P310 Immediately call a POISON CENTER/o P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture consisting of the following components.

Dangerous components:		
CAS: 100-51-6	Benzyl alcohol	30-60%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
EC number: 949-140-2	polymer amine terminated	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	
CAS: 2855-13-2	Isophorone diamine	≥10-<25%
EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	

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		(Co	ontd. of page 2)
	CAS: 9046-10-0	Polyoxypropylenediamine	≥5-<10%
	Reg.nr.: 01-2119557899-12	Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
	CAS: 90640-66-7	Tetraethylenepentamine	≥2.5-<5%
	EINECS: 292-587-7 Reg.nr.: 01-2119487290-37	Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
	CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥3-<5%
	EINECS: 202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4,	
	Reg.nr.: 2119560597-27	H302	
_	Additional information For the wording of the listed hazard phrases refer to section 16.		ction 16.

SECTION 4: First aid measures

· 4.1 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.

· 4.2 Most important symptoms and effects, both acute and

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

5.2 Special hazards arising from the substance or

mixture

No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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6.2 Environmental

precautions: Prevent material from reaching sewage system, holes and cellars.

· 6.3 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.

6.4 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.

SECTION 7: Handling and storage

· 7.1 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.

· 7.2 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

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require

monitoring at the workplace: The product does not contain any relevant quantities of materials

DNELs		
CAS: 100	0-51-6 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	e DNEL 22 mg/m³ (ArL)	
	110 mg/m³ (Ark)	
CAS: 28	55-13-2 Isophorone diamine	
Oral	DNEL 0.526 mg/kg bw/Tag (ArL)	
Inhalative	e DNEL 20.1 mg/m³ (ArL)	
CAS: 904	46-10-0 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-tris(dimethylaminomethyl)phenol	
Inhalative	e DNEL 0.31 mg/m³ (ArL)	
PNECs		
CAS: 100	0-51-6 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.	5.27 mg/kg dwt (Fresh water sediment)	
CAS: 28	55-13-2 Isophorone diamine	
PNEC 0.	.006 mg/l (Mew)	
0.	.06 mg/l (Freshwater)	
PNEC 0.	.578 mg/kg dwt (Sediment)	
5.	5.784 mg/kg dwt (Fresh water sediment)	
CAS: 904	46-10-0 Polyoxypropylenediamine	
PNEC 7.	.5 mg/l (Sewage Treatment Plant)	
0.	.015 mg/l (Fresh water)	
PNEC 0.	.0176 mg/kg dwt (Bod)	
	.125 mg/kg dwt (Sediment)	



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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)

0.0084 mg/l (Mew) 0.084 mg/l (Freshwater)

• Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as 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.

· Hand protection 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

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Penetration time: ≥ 480 min Tight-fitting safety goggles. · Eye/face protection

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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Yellow

· Smell: Characteristic Not determined Melting point/freezing point:

· Boiling point or initial boiling point and

boiling range 205.4 °C (CAS: 100-51-6 Benzyl alcohol) · Lower and upper explosion limit

· Lower: 1.3 Vol % (CAS: 100-51-6 Benzyl alcohol) · Upper: 13 Vol % (CAS: 100-51-6 Benzyl alcohol)

· Flash point: 101 °C

· Auto-ignition temperature: 380 °C (CAS: 2855-13-2 3-aminomethyl-3,5,5-

trimethylcyclohexylamine)

Not applicable.

· pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined. · dynamic: Not determined.

· Solubility

· Water: Not miscible or difficult to mix

· Steam pressure at 20 °C: 0.1 hPa (CAS: 100-51-6 Benzyl alcohol)

· Vapour pressure at 50 °C: 0.7 hPa

· Density and/or relative density

· Density at 20 °C 1.03 g/cm³

· 9.2 Other information

· Appearance:

Fluid

· Important information on protection of health

and environment, and on safety.

· Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.

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· Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void Desensitised explosives Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

No decomposition if used according to specifications. conditions to be avoided:

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

· 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Harmful if swallowed.

· 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) 200 mg/kg (rat)

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LD50	2000 mg/kg (rabbit)		
LC50/4 h	>4178 mg/l (rat)		
5-13-2 Isophorone dian	nine		
LD50	1030 mg/kg (ATE)		
	1030 mg/kg (rat)		
NOAEL	250 mg/kg (rat)		
LD50	1840 mg/kg (rabbit)		
	>2000 mg/kg (rat)		
CAS: 9046-10-0 Polyoxypropylenediamine			
LD50	2855 mg/kg (Rat)		
LD50	2980 mg/kg (Kan)		
CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol			
LD50	mg/kg (rat)		
NOAEL	15 mg/kg (rat)		
	LC50/4 h 5-13-2 Isophorone dian LD50 NOAEL LD50 6-10-0 Polyoxypropyler LD50 LD50 2-2 2,4,6-tris(dimethyla		

· Skin corrosion/irritation Causes severe skin burns and eye damage.

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:	
CAS: 100-	51-6 Benzyl alcohol	
IC50/72h	IC50/72h 700 mg/l (algae)	
LC50/96h	LC50/96h 460 mg/l (Pimephales promelas)	
	10 mg/l (Lepomis macrochirus)	
CAS: 2855	CAS: 2855-13-2 Isophorone diamine	
LC50/96h	96h 110 mg/l (Leucidus idus)	
EC50	EC50 1120 mg/l (Pseudomonas putida)	
EC50/48h	EC50/48h 23 mg/l (Daphnia magna)	
NOEC	1.5 mg/l (Desmodesmus subspicatus)	
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ErC50/72h >50 mg/l (Desmodesmus subspicatus)

CAS: 90-72-2 2.4.6-tris(dimethylaminomethyl)phenol

3 mg/l (Daphnia magna)

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)

12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· 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.

SECTION 13: Disposal considerations

· 13.1 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.

SECTION 14: Transport information

· 14.1 UN number or ID number

· **ADR, IMDG, IATA** UN2289

· 14.2 UN proper shipping name

· ADR, IMDG, IATA ISOPHORONEDIAMINE solution

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14.3 Transport hazard class(es)	
ADR Class Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category Segregation Code	Warning: Corrosive substances. 80 F-A,S-B A SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk accordi IMO instruments	ing to Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
Transport category Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
UN "Model Regulation":	UN 2289 ISOPHORONEDIAMINE SOLUTION, 8

SECTION 15: Regulatory information

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· 15.1 Safety, health and environmental regulations/ legislation specific for the

substance or mixture No further relevant information available.

· Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

· 15.2 Chemical safety

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

SECTION 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.

· Relevant phrases H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

· Department issuing data

specification sheet:

Environment protection department.

· 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox 4: Acute toxicity – Category 4

Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic

hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 3

* Data compared to the previous version altered.

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