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Safety data sheet according to UK REACH

Printing date 15.04.2025 Version number 5 (replaces version 4) Revision: 15.04.2025

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

· 1.1 Product identifier

· Trade name MC-DUR 1322 - Komponente A

· 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

· 1.3 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

· 1.4 Emergency telephone

number:

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

Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

H315 Causes skin irritation. Skin Irrit. 2

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure.

Route of exposure: Inhalation.

Aquatic Chronic 2 H411 Toxic to aquatic 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







GHS07 GHS08 GHS09

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· Signal word

Danger

· Hazard-determining

components of labelling:

4,4'-Methylenediphenyldiglycidyl ether

Quartz sand

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] bis(oxirane) and 2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}

methyl)oxirane

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H372 Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation. H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/

sprav

P261 Avoid breathing dust/fume/gas/mist/vapours/

sprav.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/

attention.

· Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed

when sprayed. Do not breathe spray or mist.

· 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:** Resin mixture with colouring agents.

Mixture consisting of the following components.

· Dangerous component	ts:	
CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether		30-60%
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 14808-60-7	Quartz sand	10-30%
EINECS: 238-878-4	STOT RE 1, H372	
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	(Co	ontd. of page 2
CAS: 13463-67-7	Titanium dioxide	≥1-<5%
EINECS: 236-675-5	Carc. 2, H351	
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	<2.5%
Reg.nr.: 01-2119488216-32		
01-2119486136-34	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
· Additional information	For the wording of the listed hazard phrases refer to see	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: No special measures required.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

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).

· 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 6.1C

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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

with critical values that have to be monitored at the workplace.

· DNELs

Oral

Reaction mass of ethylbenzene and xylene

DNEL 1.6 mg/kg bw/Tag (ArL)

mg/kg bw/Tag (Workers)

Dermal DNEL 180 mg/kg bw/day (ArL)

Inhalative DNEL 211 mg/m³ (ArL)

CAS No. Designation of material % Type Value Unit

· Additional Occupational Exposure Limit Values for possible hazards during processing:

CAS: 1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

CAS: 100-41-4 ethylbenzene

WEL | Short-term value: 552 mg/m³, 125 ppm

Long-term value: 441 mg/m³, 100 ppm

Sk

• 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 (Contd. on page 6)



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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 Tight-fitting safety goggles.

· Eye/face protection · Body protection:

Safety goggles.
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: According to product specification

Smell: CharacteristicMelting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range >200 °C (CAS: 25068-38-6 Propyl -2,2-diphenyl-

4,4'dipropyloxirane polymers and homologues

molecular weight < 700)

· Flash point: 151 °C

· Auto-ignition temperature: 184 °C (CAS: 25068-38-6 Propyl -2,2-diphenyl-

4,4'dipropyloxirane polymers and homologues

molecular weight < 700)

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· **pH** Not determined.

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.12600 mPas

·Solubility

· Water: Not miscible or difficult to mix

Steam pressure at 20 °C: <0.1 hPa (CAS: 25068-38-6 Propyl -2,2-diphenyl-

4,4'dipropyloxirane polymers and homologues

molecular weight < 700)

· Density and/or relative density

· Density at 20 °C 2.25 g/cm³

· 9.2 Other information

· Appearance:

· Form: Viscous

· Important information on protection of health

and environment, and on safety.

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

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

Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

· Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids

Oxidising solids

Organic peroxides

Corrosive to metals

Desensitised explosives

Void

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition /

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

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

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• 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 Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:		
CAS: 167	5-54-3 4,4	'-Methylenediphenyldiglycidyl ethe
Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
		>2000 mg/kg (rat)

 CAS: 13463-67-7 Titanium dioxide

 Oral
 LD50
 >5000 mg/kg (rat)

 Dermal
 LD50
 >10000 mg/kg (rabbit)

Inhalative LC50/4 h >6.8 mg/l (rat)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)
oxirane

Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit)	
Reaction mass of ethylbenzene and xylene			
Oral	LD50	3523-4000 mg/kg (rat)	
Dermal	LD50	1100 mg/kg (rabbit)	
Inhalative	LC50/4 h	11 mg/l (rat)	

· Primary irritant effect:

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Causes damage to the lung through prolonged or repeated

exposure. Route of exposure: Inhalation.

· Aspiration hazard 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	toxicity:

CAS: 1675-54-3 4,4'-Methylenediphenyldiglycidyl ether

LC50/72h >11 mg/l (algae) IC50 >42.6 mg/l (Bak)

LC50/96h 2 mg/l (Oncorhynchus mykiss)

1.3 mg/l (fish)

EC50/48h 2.1 mg/l (daphnia)

1.8 mg/l (Daphnia magna)

ErC50/72h 11 mg/l (Selenastrum capricornutum)

CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]
bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]
bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)
oxirane

LC50/96h >100 mg/l (Daphnia magna) EC50/96h >100 mg/l (Leucidus idus)

Reaction mass of ethylbenzene and xylene

EC50/72h | 2.2 mg/l (Selenastrum capricornutum) LC50/96h | 2.6 mg/l (Oncorhynchus mykiss)

NOEC 16 mg/l (BEL)

· 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.

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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:

Empty contaminated packagings thoroughly. They can be recycled · Recommendation:

after thorough and proper cleaning.

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR, IATA	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide res epoxide derivates)
IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Epoxide res epoxide derivates), MARINE POLLUTANT
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances a articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances au articles.
Label	9
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	V
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances a
Kemler Number:	90
EMS Number:	F-A,S-F



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· Stowage Category	Α
· 14.7 Maritime transport in bulk accord IMO instruments	ding 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: 1000 ml
· Transport category · Tunnel restriction code	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE RESIN, EPOXIDE DERIVATES), 9, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Qualifying quantity (tonnes)

for the application of lower-

tier requirements

Qualifying quantity (tonnes) for the application of upper-

tier requirements

200 t

500 t

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· 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 H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated

exposure.

H373 May cause damage to organs through prolonged or repeated

exposure.

H411 Toxic 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids — Category 3 Acute Tox. 4: Acute toxicity — Category 4 Skin Irrit. 2: Skin corrosion/irritation — Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

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

hazard – Category 2

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* Data compared to the previous version altered.

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