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Safety data sheet according to UK REACH

Printing date 23.01.2026

Version number 3 (replaces version 2)

Revision: 23.01.2026

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

· **1.1 Product identifier**

· **Trade name**

EX1 Part A

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Application of the substance / the mixture**

Construction chemicals

· **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
Siloring 8
CH-5606 Dintikon
Tel. +41 56 616 68 68
Fax +41 56 616 68 69

· **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**

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

Repr. 1B

H360F May damage fertility.

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

· **Signal word**

Danger

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- **Hazard-determining components of labelling:** *Bis-(4-(2,3-epoxypropoxy)phenyl)propane*
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
- **Hazard statements**
 - H315 Causes skin irritation.*
 - H319 Causes serious eye irritation.*
 - H317 May cause an allergic skin reaction.*
 - H360F May damage fertility.*
 - H411 Toxic to aquatic life with long lasting effects.*
- **Precautionary statements**
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.*
 - P362+P364 Take off contaminated clothing and wash it before reuse.*
 - P405 Store locked up.*
- **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 components:**

CAS: 1675-54-3	<i>Bis-(4-(2,3-epoxypropoxy)phenyl)propane</i> <i>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</i>	<i>50-70%</i>
CAS: 9003-36-5	<i>formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol</i> <i>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317</i>	<i>≥10-<25%</i>
CAS: 933999-84-9	<i>Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane</i> <i>Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412</i>	<i>≥10-<25%</i>

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

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

· 5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Personnel not trained for emergencies:

Sweep up product and pick up with shovels or other tools and place in a container for reuse (preferably) or disposal.

Emergency personnel:

Wear protective equipment. Keep unprotected persons away. See section 8.

· 6.2 Environmental precautions:

Leakage into the water must be prevented at all costs. Store absorbed product appropriately in hermetically sealable containers. In case of exposure to the general population or the environment, inform the competent authorities.

Inform respective authorities in case product reaches water or sewage system.

Dilute with much water.

· 6.3 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.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

A.- Precautions for safe handling

With regard to the handling of loads, comply with current legislation on the prevention of industrial risks. Maintain order and cleanliness and carry out disposal using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions.

As the product is not flammable, there is no risk of fire under normal conditions of storage, handling and use.

C.- Technical recommendations for the prevention of ergonomic and toxicological risks. Do not eat or drink while handling, then wash hands with suitable cleaning agents.

D.- Technical recommendations for the prevention of environmental risks

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Store in cool, dry place in tightly closed containers.

· Information about protection against explosions and fires:

Keep breathing equipment ready.

· 7.2 Conditions for safe storage, including any incompatibilities

A.- Technical storage measures

Maximum temperature: 30 °C

B.- General storage conditions.

Heat sources, radiation, static electricity and contact with food must be avoided.

· Storage

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Keep container tightly closed in a well-ventilated place.

· Storage class

6.1C

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.

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- **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 foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Store protective clothing separately.
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *Self-filtering mask for gases and vapours (EN 405:2002+A1:2010)

Replace if the odour or taste of the pollutant is detected inside the mask or facepiece. If the pollutant does not provide a good indication, the use of insulating equipment is recommended.*
- **Hand protection**
- **Material of gloves** *Protective 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.*
- **Penetration time of glove material** *The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.*
- **Eye/face protection** *Panoramic safety goggles against splashes and / or ejection. EN 166:2002 EN ISO 4007:2018

Clean daily and disinfect at regular intervals according to the manufacturer's instructions. Use is recommended if there is a risk of splashing.*

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** *Liquid*
- **Colour:** *White*
- **Smell:** *Characteristic*
- **Odour threshold:** *Not determined*
- **Melting point/freezing point:** *Not determined*
- **Boiling point or initial boiling point and boiling range** *175 °C (CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)*
- **Flammability** *Not applicable*
- **Lower and upper explosion limit**
- **Lower:** *Not determined*

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· Upper:	Not determined
· Flash point:	>60 °C (CAS: 933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1: 2))
· Auto-ignition temperature:	400 °C (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)
· Decomposition temperature:	Not determined
· pH at 20 °C	7
· Viscosity:	
· Kinematic viscosity at 20 °C	>20.5 mm ² /s
· dynamic:	Not determined
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined
· Steam pressure at 20 °C:	<5 hPa (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)
· Vapour pressure at 50 °C:	7.2 hPa
· Density and/or relative density	
· Density at 20 °C	1.25 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined

· 9.2 Other information

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Change in condition	
· Evaporation rate	Not determined

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void

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· 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** stable
- **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:** Possible in traces.

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: 1675-54-3 Bis-(4-(2,3-epoxypropoxy)phenyl)propane

Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	23000 mg/kg (rabbit)
		>2000 mg/kg (rat)

CAS: 9003-36-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

- **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.
- **Reproductive toxicity** May damage fertility.

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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 Bis-(4-(2,3-epoxypropoxy)phenyl)propane

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 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

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

· **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**

· **Remark:**

Toxic for fish

· **Additional ecological information:**

· **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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Trade name EX1 Part A

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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.*

· **Recommended cleaning agent:**

Water, if necessary with cleaning agent.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA** *UN3082*

· **14.2 UN proper shipping name**

· **ADR, IATA** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-(4-(2,3-epoxypropoxy)phenyl)propane)*

· **IMDG** *ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis-(4-(2,3-epoxypropoxy)phenyl)propane), MARINE POLLUTANT*

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** *9 (M6) Miscellaneous dangerous substances and articles.*

· **Label** *9*

· **IMDG, IATA**

· **Class** *9 Miscellaneous dangerous substances and articles.*

· **Label** *9*

· **14.4 Packing group**

· **ADR, IMDG, IATA** *III*

· **14.5 Environmental hazards:**

· **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 and articles.

· **Kemler Number:** *90*

· **EMS Number:** *F-A, S-F*

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Trade name EX1 Part A

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	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	(-)
· Remarks:	1 kg Gebinde: Begrenzte Mengen
· 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
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS-(4-(2,3-EPOXYPROPOXY)PHENYL)PROPANE), 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**

· **Named dangerous substances - ANNEX I**

None of the ingredients is listed.

· **Seveso category**

E2 Hazardous to the Aquatic Environment

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- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Relevant phrases**
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H360F May damage fertility.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.
- **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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - 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
 - Repr. 1B: Reproductive toxicity – 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

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