

Page 1/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

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

· 1.1 Product identifier

• Trade name MC-CarboSolid 1209 TX - Komponente B

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.: +48612864565

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Skin Corr. 1A 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.

· 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



GHS05 GHS07

· Signal word Danger

· Hazard-determining

components of labelling: Isophorone diamine

2-methylpentane-1,5-diamine

(Contd. on page 2)



Page 2/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 1)

4,4'-methylenebis(cyclohexan-1-amine)

Polyoxypropylenediamine

Amine polymer

· Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

• Precautionary statements P260 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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it

before reuse.

· Additional information: Contains epoxy constituents. May produce an allergic reaction.

· 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: 9046-10-0 Reg.nr.: 01-2119557899-12	Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	≥10-<25%
EC number: 948-369-5	Amine polymer Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-30%
CAS: 15520-10-2 EINECS: 239-556-6	2-methylpentane-1,5-diamine Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	≥10-<20%
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	Isophorone diamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥5-<10%
CAS: 1761-71-3 EINECS: 217-168-8	4,4'-methylenebis(cyclohexan-1-amine) STOT RE 2, H373; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1B, H317	≥5-<10%
	Amine polymer Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥3-<10%

(Contd. on page 3)



Page 3/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

	(0	contd. of page 2)
CAS: 100-51-6	Benzyl alcohol	<5%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
· Additional information	For the wording of the listed hazard phrases refer to se	ection 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation Supply fresh air.

After skin contact Instantly wash with water and soap and rinse thoroughly.
 After eye contact Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing Rinse out mouth and then drink plenty of water.

Seek medical treatment.

· 4.2 Most important symptoms and effects, both acute and

delayed No further relevant information available.

· 4.3 Indication of any

immediate medical attention

and special treatment needed No further relevant information available.

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.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Not required.

6.2 Environmental

precautions: No special measures required.

· 6.3 Methods and material for

containment and cleaning up: Collect mechanically.

· 6.4 Reference to other

sections See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

GB



Page 4/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 3)

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Store in cool, dry place in tightly closed containers.

Open and handle container with care.

· Information about protection

against explosions and fires: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: None. Storage class 8A

• 7.3 Specific end use(s) No further relevant information available.

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		
9046-10-0	Polyo	xypropylenediamine
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)
Dermal	DNEL	2.5 mg/kg bw/day (ArL)
15520-10-	2 2-me	thylpentane-1,5-diamine
Dermal	DNEL	1.5 mg/kg bw/day (ArL)
Inhalative	DNEL	0.25 mg/m³ (ArL)
		0.5 mg/m³ (Ark)
2855-13-2	Isoph	orone diamine
Oral	DNEL	0.526 mg/kg bw/Tag (ArL)
Inhalative	DNEL	20.1 mg/m³ (ArL)
1761-71-3	4,4'-m	ethylenebis(cyclohexan-1-amine)
Oral	DNEL	0.06 mg/kg bw/Tag (ArL)
Dermal	DNEL	0.1 mg/kg bw/day (ArL)
Inhalative	DNEL	1 mg/m³ (ArL)
		(Contd. on page

n pago (



Page 5/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

100-51	-6 B	enzvl	alcohol	
Oral			4 mg/kg bw/Tag (ArL)	
			20 mg/kg bw/Tag (Ark)	
Derma	, ,	DNEL	8 mg/kg bw/day (ArL)	
			40 mg/kg bw/day (Ark)	
Inhalat	ive L	DNEL	22 mg/m³ (ArL)	
			110 mg/m³ (Ark)	
PNECS	S			
9046-1	0-0 I	Polyo	xypropylenediamine	
PNEC	7.5	mg/l (S	Sewage Treatment Plant)	
	0.01	15 mg/	(I (Fresh water)	
PNEC	0.01	176 mg	g/kg dwt (Bod)	
	0.12	25 mg/	/kg dwt (Sediment)	
	0.13	32 mg/	/kg dwt (Fresh water sediment)	
15520-			thylpentane-1,5-diamine	
PNEC	0.04	12 mg/	(I (Mew)	
	0.42	2 mg/l	(Suw)	
2855-1	3-2 I	Isopho	orone diamine	
PNEC 0.006 mg/l (Mew)		1 (Mew)		
	0.06 mg/l (Suw)			
PNEC	0.57	78 mg/	/kg dwt (Sediment)	
	5.78	34 mg/	/kg dwt (Fresh water sediment)	
1761-7	1-3	4,4'-m	ethylenebis(cyclohexan-1-amine)	
PNEC	0.08	3 mg/l	(Fresh water)	
	3.2	mg/l (ŀ	Kla)	
	13.7	7 mg/l	(Mew)	
PNEC	27.2	2 mg/k	g dwt (Bod)	
	13.7	7 mg/k	g dwt (Sediment)	
	137	mg/kg	g dwt (Fresh water sediment)	
100-51	-6 B	enzyl	alcohol	
	0.52	27 mg/	(I (Marine water sediment)	
	0.1	mg/l (l	Mew)	
	1 m	g/l (Fr	esh water sediment)	
PNEC	0.45	56 mg/	/kg dwt (Bod)	
	5.27	7 mg/k	g dwt (Fresh water sediment)	

· 8.2 Exposure controls Appropriate engineering

controls No further data; see section 7.

(Contd. on page 6)



Page 6/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 5)

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

· Hand protection Protective gloves.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

• Material of 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

· Penetration time of glove

material

The exact break trough time has to be found out by the

manufacturer of the protective gloves and has to be observed.

· Eye/face protection Safety glasses

Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Grey
Smell: Amine-like
Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 247 °C (2855-13-2 3-aminomethyl-3,5,5-

≥61 °C

trimethylcyclohexylamine)

Flash point:

Auto-ignition temperature: 380 °C pH at 20 °C 12

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.40000 mPas

· Solubility

Water: Partly miscibleSteam pressure: Not determined.

Density and/or relative density

Density at 20 °C 1.28 g/cm³

9.2 Other information

Appearance:

· Form: Pasty

(Contd. on page 7)



Page 7/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 6)

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 Void · Aerosols Void · Oxidising gases · Gases under pressure Void · Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void

Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which emit flammable gases in contact with water
Oxidising liquids
Void

Oxidising liquids
 Oxidising solids
 Organic peroxides
 Corrosive to metals
 Desensitised explosives

Void

 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

• 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.

(Contd. on page 8)



Page 8/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

		(Contd. of p
LD/LC50	values that are relevant	t for classification:
9046-10-0	Polyoxypropylenediar	nine
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
15520-10-	2 2-methylpentane-1,5	diamine
Oral	LD50	1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative	LC50/4 h	19.6 mg/l (rat)
2855-13-2	Isophorone diamine	
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)
1761-71-3	4,4'-methylenebis(cyc	lohexan-1-amine)
Oral	LD50	380 mg/kg (rat)
Dermal	LD50	2110 mg/kg (rat)
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	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)

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

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

GB



Page 9/12

Safety data sheet according to 1907/2006/EC, Article 31

Revision: 01.09.2023 Printing date 01.09.2023 Version number 28 (replaces version 27)

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 8)

SECTION 12: Ecological information

· 12.1 Toxici	ity
· Aquatic to	xicity:
15520-10-2	2-methylpentane-1,5-diamine
EC50/72h	>100 mg/l (algae)
EC50	1825 mg/l (fish)
EC50/48h	19.8 mg/l (Daphnia magna)
2855-13-2 I	sophorone diamine
LC50/96h	110 mg/l (Leucidus idus)
EC50	1120 mg/l (Pseudomonas putida)
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)
1761-71-3	4,4'-methylenebis(cyclohexan-1-amine)
LC50/96h	>100 mg/l (Leucidus idus)
EC50/48h	6.84 mg/l (Daphnia magna)
NOEC	4 mg/l (Daphnia magna)
ErC50/72h	141.2 mg/l (Desmodesmus subspicatus)
100-51-6 B	enzyl alcohol
IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)

· 12.2 Persistence and

No further relevant information available. degradability

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

The product does not contain substances with endocrine disrupting properties

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.



Page 10/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 9)

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.

14.1 UN number or ID number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. methylpentane-1,5-diamine, Isophorone diamine
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	II .
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number: EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances. 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk accordi IMO instruments	i ng to Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 r Maximum net quantity per outer packaging: 500



Page 11/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023 Version number 28 (replaces version 27) Revision: 01.09.2023

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 10)

· Transport category 2 · Tunnel restriction code E

· 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-METHYLPENTANE-1,5-DIAMINE,

ISOPHORONE DIAMINE), 8, II

SECTION 15: Regulatory information

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

15.2 Chemical safety

No further relevant information available.

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.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated

exposure.

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

(Contd. on page 12)



Page 12/12

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.09.2023

Version number 28 (replaces version 27)

Trade name MC-CarboSolid 1209 TX - Komponente B

(Contd. of page 11)

Revision: 01.09.2023

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 (ÚK 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 – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B 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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* * Data compared to the previous version altered.