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# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.07.2024 Version number 46 (replaces version 45) Revision: 13.07.2024

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

· 1.1 Product identifier

• Trade name MC-BetoSolid SX - Komponente B

· Article number: 2133

· 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 curing agent

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:

1.4 Emergency telephone

number:

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.

Acute Tox. 4 H312 Harmful in contact with skin.

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.

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn

child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3 H412 Harmful 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 CLP regulation.

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· Hazard pictograms

**(!)** 

GHS05 GHS07 GHS0

· Signal word Danger

· Hazard-determining

components of labelling: polymer amine terminated

Isophorone diamine

2-piperazin-1-ylethylamine

Benzyl alcohol

2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid

Orange juice oil Aminoethylpiperazine

· Hazard statements H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging

the unborn child.

H373 May cause damage to organs through prolonged or

repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

• 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.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

⋅ PBT: Not applicable.⋅ ∨P∨B: Not applicable.

Determination of endocrine-disrupting properties

CAS: 61788-44-1 | 2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid | List II

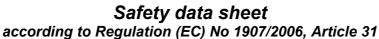
### SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

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Dangerous components:		
EC number: 949-140-2	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	10-30%
CAS: 100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	10-30%
CAS: 61788-44-1 EINECS: 262-975-0	2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥10-<25%
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 Specific concentration limit: Skin Sens. 1A; H317: C≥ 0.001 %	≥10-<25%
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: 140-31-8 EINECS: 205-411-0 Reg.nr.: 01-2119471486-30	2-piperazin-1-ylethylamine Acute Tox. 3, H311; Repr. 2, H361fd; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥5-<10%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12	Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	≥2.5-<5%
CAS: 8028-48-6 EINECS: 232-433-8 Reg.nr.: 01-2119493353-35- XXXX	Orange juice oil Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.25-<1%
CAS: 140-31-8 EINECS: 205-411-0	Aminoethylpiperazine Acute Tox. 3, H311; Repr. 2, H361; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<1%

### **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.

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· 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 Can be released in case of fire

Nitrogen oxides (NOx)

· 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.

· 6.2 Environmental

precautions: Inform respective authorities in case product reaches water or

sewage system.

· 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) (Contd. on page 5)



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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

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· Requirements to be met by

storerooms and containers: No special requirements.

· Further information about

storage conditions: Keep container tightly closed in a well-ventilated place.

· Storage class

### 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			
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: 155	20-10-2	2-methylpentane-1,5-diamine	
Dermal	DNEL	1.5 mg/kg bw/day (ArL)	
Inhalative	DNEL	0.25 mg/m³ (ArL)	
		0.5 mg/m³ (Ark)	
			(Contd. on page





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040-	440 24 0 2 minavanin 4 ylathylamina	(Contd. of page
	140-31-8 2-piperazin-1-ylethylamine	
Derma		
	tive DNEL 10.6 mg/m³ (ArL)	
	9046-10-0 Polyoxypropylenediamine	
Oral	DNEL 0.04 mg/kg bw/Tag (ArL)	
Derma		
	8028-48-6 Orange juice oil	
Oral	DNEL   4.44 mg/kg bw/Tag (ArL)	
Derma		
	tive DNEL 31.1 mg/m³ (ArL)	
	140-31-8 Aminoethylpiperazine	
Derma		
Inhalat	tive DNEL 10.6 mg/m³ (ArL)	
PNEC:	S	
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	
	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:	15520-10-2 2-methylpentane-1,5-diamine	
	0.042 mg/l (Mew)	
	0.42 mg/l (Freshwater)	
CAS:	140-31-8 2-piperazin-1-ylethylamine	
	250 mg/l (Kla)	
	0.0058 mg/l (Mew)	
	0.058 mg/l (Freshwater)	
PNEC	1 mg/kg dwt (Bod)	
_	21.5 mg/kg dwt (Sediment)	
	215 mg/kg dwt (Fresh water sediment)	
CAS:	9046-10-0 Polyoxypropylenediamine	
	7.5 mg/l (Sewage Treatment Plant)	
3	0.015 mg/l (Fresh water)	
	0.0176 mg/kg dwt (Bod)	

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0.125 mg/kg dwt (Sediment)

0.132 mg/kg dwt (Fresh water sediment)

CAS: 140-31-8 Aminoethylpiperazine

PNEC 250 mg/l (Kla)

0.0058 mg/l (Mew)

0.058 mg/l (Freshwater)

PNEC 1 mg/kg dwt (Bod)

21.5 mg/kg dwt (Sediment)

215 mg/kg dwt (Fresh water sediment)

• 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.

 $\cdot \textit{Individual protection measures, such as personal protective equipment}$ 

· 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.

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Nitrile rubber

Material thickness:  $\geq$  0.40 mm Penetration time:  $\geq$  480 min

Butyl rubber:

Protective clothing

Material thickness:  $\geq 0.5$  mm Penetration time:  $\geq 480$  min Tight-fitting safety goggles.

• **Eye/face protection** Tight-fitting safety go Safety goggles.

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

· Body protection:

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

Boiling point or initial boiling point and

boiling range 193 °C (CAS: 15520-10-2 2-methylpentane-1,5-

diamine)

· 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: >61 °C · Auto-ignition temperature: 435 °C · pH at 20 °C 12

· Viscosity:

Kinematic viscositydynamic at 20 °C:Not determined.100 mPas

· 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 1.02 g/cm³

· 9.2 Other information

· Appearance:

· Form: Fluid

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

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

• 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.

Harmful in contact with skin.

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	values that are releval	nt for classification:
	-51-6 Benzyl alcohol	1000
Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	
		200 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative		>4178 mg/l (rat)
	5-13-2 Isophorone dia	
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: 155	20-10-2 2-methylpenta	ne-1,5-diamine
Oral	LD50	1170 mg/kg (rat)
Dermal	LD50	1870 mg/kg (rabbit)
Inhalative	LC50/4 h	19.6 mg/l (rat)
CAS: 140-31-8 2-piperazin-1-ylethylamine		
Oral	LD50	2000-5000 mg/kg (rat)
		500 mg/kg (rabbit)
Dermal	LD50	200-1000 mg/kg (rabbit)
CAS: 904	6-10-0 Polyoxypropyle	enediamine
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
CAS: 802	8-48-6 Orange juice oi	1
Oral	LD50	>4400 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
CAS: 140	-31-8 Aminoethylpipei	,
Oral	LD50	2000-5000 mg/kg (rat)
		500 mg/kg (rabbit)
Dermal	LD50	200-1000 mg/kg (rabbit)
		Causes severe skin burns and eye damage.
		Causes serious eye damage.
Respirato	ory or skin	, -
		May cause an allergic skin reaction.
0 ,		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
		Suspected of damaging fertility. Suspected of damaging the unb
	_	child.
		Based on available data, the classification criteria are not met.
		May cause damage to organs through prolonged or repea
		exposure.



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

11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 61788-44-1 2,4,6-Tris-(1-Phenyl-Ethyl) carbolic acid

List II

# **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic	toxicity:

#### 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)

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: 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)

#### CAS: 140-31-8 2-piperazin-1-ylethylamine

EC50/72h >1000 mg/l (algae)

LC50/96h 2190 mg/l (fish)

#### CAS: 140-31-8 Aminoethylpiperazine

EC50/72h >1000 mg/l (algae) LC50/96h 2190 mg/l (fish)

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 For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· **Remark:** Harmful to fish

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· Additional ecological information:

• General notes: Harmful to aquatic organisms

Must not reach sewage water or drainage ditch undiluted or

unneutralised.

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.

	allow product to reach sewage system.	
· European	waste catalogue	
17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 09 00	other construction and demolition wastes	
17 09 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances	
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AN PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01 00	packaging (including separately collected municipal packaging waste)	
15 01 01	paper and cardboard packaging	
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01 00	packaging (including separately collected municipal packaging waste)	
15 01 02	plastic packaging	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	
HP6	Acute Toxicity	
HP8	Corrosive	
HP10	Toxic for reproduction	
HP13	Sensitising	
HP14	Ecotoxic	

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

# SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN2735

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· 14.2 UN proper shipping name · ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE, 2-methylpentane-1, s 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	<b>ng to</b> Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
· Transport category · Tunnel restriction code	2 <i>E</i>
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O. (ISOPHORONEDIAMINE, 2-METHYLPENTANI 1,5-DIAMINE), 8, II



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# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Revision: 13.07.2024 Printing date 13.07.2024 Version number 46 (replaces version 45)

Trade name MC-BetoSolid SX - Komponente B

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### **SECTION 15: Regulatory information**

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

substance or mixture REGULATION (EC) No No further relevant information available.

1907/2006 ANNEX XVII

Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety

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

#### **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.

H226 Flammable liquid and vapour. · Relevant phrases

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

Toxic in contact with skin. H311

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 eve irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging

the unborn child.

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H372 Causes damage to organs through prolonged or repeated

exposure.

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.

· Date of previous version: 17.10.2021

· Version number of previous

· 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 (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

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity - Category 3

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 Repr. 2: Reproductive toxicity - Category 2

Repr. 2: Reproductive toxicity - 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

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

hazard - Category 3

\* \* Data compared to the previous version altered.