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Safety Data Sheet according to P.U.(A) 310/2013

Printing date 14.04.2025 Version number 58 Revision: 14.04.2025

1 Identification of the hazardous chemical and of the supplier

· Product identifier

• Trade name MC-BetoSolid SX - Komponente B

• **Article number**: 0045650 000 1

· Recommended use of the chemical and restrictions on

use No further relevant information available.

· Application of the substance

/ the mixture Epoxy curing agent

· 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

2 Hazard identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful if in contact with skin.

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

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

Repr. 2 H361 Suspected of damaging fertility or 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.

· Label elements

• GHS label elements The product is classified and labelled according to the Globally

Harmonised System (GHS).

· Hazard pictograms







GHS05 GHS07 GHS08

· **Signal word** Danger

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Hazard-determining

components of labelling: Polymer with amino-functional groups

Isophorone diamine Benzyl alcohol

2-piperazin-1-ylethylamine Phenol, mono- and distyrolised

· Hazard statements H302+H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause allergic skin reaction.

H361 Suspected of damaging fertility or 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.

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

spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off

immediately all contaminated clothing. Rinse

skin with water/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).

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures

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

	Polymer with amino-functional groups	10-30%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 100-51-6	Benzyl alcohol	10-30%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
	Phenol, mono- and distyrolised	≥10-<259
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 2855-13-2	Isophorone diamine	≥10-<259
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 15520-10-2	2-Methylpentamethylenediamine	≥10-<20%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	

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	(C	contd. of page 2)
CAS: 140-31-8	2-piperazin-1-ylethylamine	≥5-<10%
	Acute Tox. 3, H311; Repr. 2, H361; STOT RE 1, H372; Skin Corr. 1, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 9046-10-0	Polyoxypropylenediamine	≥3-<5%
	Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	
CAS: 8028-48-6	Orange juice oil	≥0.25-<1%
	Flam. Liq. 3, H226; Asp. Haz., H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 140-31-8	Aminoethylpiperazine	≥0.1-<1%
	Acute Tox. 3, H311; Repr. 2, H361; STOT RE 1, H372; Skin Corr. 1, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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

4 First-aid measures

· 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.

· Information for doctor

· Most important symptoms

and effects, both acute and

delayed Advice for the doctor: Elementary aid, decontamination,

symptomatic treatment.

5 Fire-fighting measures

· Extinguishing media

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

· Special hazards arising from

the substance or mixture Can be released in case of fire

Nitrogen oxides (NOx)

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· Advice for firefighters

· Protective equipment: Put on breathing apparatus.

6 Accidental release measures

Personal precautions, protective equipment and

emergency procedures Wear protective equipment. Keep unprotected persons away.

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

· 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.

· 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.

7 Handling and storage

· Handling

· 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.

· Conditions for safe storage, including any incompatibilities

Storage

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.

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· Storage class

BE SURE. BUILD SURE.

8A

8 Exposure controls and personal protection

· Additional information about

design of technical systems: No further data; see section 7.

· 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	-51-6 R	Benzyl alcohol	
Oral		4 mg/kg bw/Tag (ArL)	
Orai	DIVLL	20 mg/kg bw/Tag (Ark)	
Dermal	DNEI	8 mg/kg bw/day (ArL)	
Demiai	DIVEL	40 mg/kg bw/day (Ark)	
Inhalativa	DNEI	22 mg/m³ (ArL)	
IIIIIaiaiive	DIVEL		
CAC. 20E	F 42 2	110 mg/m³ (Ark)	
		Isophorone diamine	
Oral	l .	0.526 mg/kg bw/Tag (ArL)	
		20.1 mg/m³ (ArL)	
		2 2-Methylpentamethylenediamine	
Dermal		1.5 mg/kg bw/day (ArL)	
Inhalative	DNEL	0.25 mg/m³ (ArL)	
		0.5 mg/m³ (Ark)	
CAS: 140		-piperazin-1-ylethylamine	
Dermal	DNEL	3.33 mg/kg bw/day (ArL)	
Inhalative	DNEL	10.6 mg/m³ (ArL)	
CAS: 904	6-10-0	Polyoxypropylenediamine	
Oral	DNEL	0.04 mg/kg bw/Tag (ArL)	
Dermal	DNEL	2.5 mg/kg bw/day (ArL)	
CAS: 802	8-48-6	Orange juice oil	
Oral	DNEL	4.44 mg/kg bw/Tag (ArL)	
Dermal	DNEL	8.89 mg/kg bw/day (ArL)	
Inhalative	DNEL	31.1 mg/m³ (ArL)	
CAS: 140	-31-8 A	minoethylpiperazine	
Dermal	DNEL	3.33 mg/kg bw/day (ArL)	
Inhalative	DNEL	10.6 mg/m³ (ArL)	



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PNEC	
	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)
	2855-13-2 Isophorone diamine
PNEC	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)
	15520-10-2 2-Methylpentamethylenediamine
PNEC	0.042 mg/l (Mew)
	0.42 mg/l (Freshwater)
	140-31-8 2-piperazin-1-ylethylamine
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)
	9046-10-0 Polyoxypropylenediamine
PNEC	7.5 mg/l (Sewage Treatment Plant)
	0.015 mg/l (Fresh water)
PNEC	0.0176 mg/kg dwt (Bod)
	0.125 mg/kg dwt (Sediment)
	0.132 mg/kg dwt (Fresh water sediment)
	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.
- · Exposure controls
- Personal protective equipment
- General protective and

hygienic measures

Keep away from food, drink and animal feed. Remove soiled, soaked clothing immediately.

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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.

• Protection of hands: 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 Penetration time: ≥ 480 min

Eye protection: Tight-fitting safety goggles.

Safety goggles.
Protective clothing

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.



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Information on basic physical ar General Information	nd chemical properties
Appearance:	
Form:	Fluid
Colour:	anthracite
Smell:	Amine-like
pH-value at 20 °C:	12
Change in condition	
Melting point/freezing point	Not determined
Initial boiling point and boiling	range 193 °C
Flash point:	>61 °C
Auto-ignition temperature	435 °C
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Critical values for explosion:	
Lower:	1.3 Vol %
Upper:	13 Vol %
Steam pressure at 20 °C:	0.1 hPa
Vapour pressure at 50 °C:	0.7 hPa
Density at 20 °C	1.02 g/cm³
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
Viscosity:	
dynamic at 20 °C:	100 mPas
kinematic:	Not determined.

10 Stability and reactivity

Reactivity No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided:

· Possibility of hazardous

reactions

· Conditions to avoid · Incompatible materials: No dangerous reactions known

No further relevant information available. No further relevant information available.

No decomposition if used according to specifications.

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· Hazardous decomposition

products: No dangerous decomposition products known

Acute tox	_	
	values that are relevant	t for classification:
	-51-6 Benzyl alcohol	
Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	,
		200 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4178 mg/l (rat)
CAS: 285	5-13-2 Isophorone dian	nine
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)
		1840 mg/kg (rabbit)
CAS: 155	20-10-2 2-Methylpentan	nethylenediamine
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-ylet	hylamine
Oral	LD50	2000-5000 mg/kg (rat)
		500 mg/kg (rabbit)
Dermal	LD50	200-1000 mg/kg (rabbit)
CAS: 904	6-10-0 Polyoxypropylei	nediamine
Oral	LD50	2855 mg/kg (Rat)
		2885 mg/kg (rat)
Dermal	LD50	2980 mg/kg (Kan)
		2980 mg/kg (rabbit)
CAS: 802	8-48-6 Orange juice oil	
Oral	LD50	>4400 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
CAS: 140	-31-8 Aminoethylpipera	azine





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Dermal LD50	200-1000 mg/kg (rabbit)
Primary irritant effect: Skin corrosion or irritation Serious eye damage or eye	Caustic effect on skin and mucous membranes.
irritation · Respiratory / skin	Strong caustic effect.
sensitization · Additional toxicological	Sensitization possible by skin contact.
information:	The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Harmful Corrosive Irritant Sycollowing will load to a strong coustin offset on mouth and threat
	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
CMR effects (carcinogenity, mutagenicity and toxicity for	Dong 2
reproduction)	Repr. 2

12 Ecological information

· 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	5-13-2 Isophorone diamine	
LC50/96h	110 mg/l (fish)	
	110 mg/l (Leucidus idus)	
EC50	1120 mg/l (Pseudomonas putida)	
EC50/48h	23 mg/l (daphnia)	
	23 mg/l (Daphnia magna)	
NOEC	1.5 mg/l (Desmodesmus subspicatus)	
	3 mg/l (Daphnia magna)	
ErC50/72h	>50 mg/l (Desmodesmus subspicatus)	
	>50 mg/l (algae)	
CAS: 1552	20-10-2 2-Methylpentamethylenediamine	
EC50/72h	>100 mg/l (algae)	
EC50	1825 mg/l (fish)	
EC50/48h	19.8 mg/l (Daphnia magna)	



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

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

 LC50/96h
 2190 mg/l (fish)

CAS: 9046-10-0 Polyoxypropylenediamine

EC50/72h | 15 mg/l (algae) LC50/96h | >15 mg/l (fish) EC50/48h | 80 mg/l (daphnia)

CAS: 140-31-8 Aminoethylpiperazine

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

Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

Bioaccumulative potential
Mobility in soil
No further relevant information available.
No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to fish

Additional ecological information:

• General notes: Must not reach sewage water or drainage ditch undiluted or

unneutralised.

Harmful to 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.

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

• Other adverse effects No further relevant information available.

13 Disposal information

· Waste treatment methods

• Recommendation Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

· Uncleaned packagings:

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

14 Transportation information

· UN-Number

· **ADR, IMDG, IATA** UN2735

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· UN proper shipping name · ADR, IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (2 Methylpentamethylenediamine, N AMINOETHYLPIPERAZINE)
· Transport hazard class(es)	
· ADR · Class · Label	8 (C7) Corrosive substances. 8
· IMDG, IATA · Class · Label	8 Corrosive substances. 8
· Packing group · ADR, IMDG, IATA	11
· Environmental hazards: · Marine pollutant:	No
· 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
Transport in bulk according to Annex l Marpol and the IBC Code	II of Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2
· Tunnel restriction code	<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 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (METHYLPENTAMETHYLENEDIAMINE, N AMINOETHYLPIPERAZINE), 8, II



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15 Regulatory information

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

· EHS reference list		
CAS: 100-51-6	Benzyl alcohol	
CAS: 2855-13-2	Isophorone diamine	
CAS: 140-31-8	2-piperazin-1-ylethylamine	
CAS: 140-31-8	Aminoethylpiperazine	

· Directive 2012/18/EU

· Named dangerous

substances - ANNEX I None of the ingredients is listed.

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

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.

· Department issuing data

specification sheet: Environment protection department.

· Contact:

· 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

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 - oral - Category 4 Acute Tox. 3: Acute toxicity - oral - Category 3 Skin Corr. 1: Skin corrosion or irritation – Category 1 Skin Irrit. 2: Skin corrosion or irritation - Category 2

Eye Dam. 1: Serious eye damage or eye irritation - Category 1 Eye Irrit. 2: Serious eye damage or eye irritation - Category 2

Skin Sens. 1: Skin sensitization - Category 1 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 (Contd. on page 14)



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Asp. Haz.: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard -

Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard -

Category 3

* * Data compared to the previous version altered.