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

Printing date 13.04.2025 Version number 47 (replaces version 46) Revision: 13.04.2025

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

· 1.1 Product identifier

· Trade name MC-DUR 1800 TX-AS - Komponente B

of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance

/ the mixture Epoxy coating

Hardening agent/ 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:

rtment: msds@mc-bauchemie.de

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

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B 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.

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.

· Hazard pictograms



GHS05 GHS07

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· Signal word

Danger

· Hazard-determining

components of labelling:

Benzyl alcohol Isophorone diamine

Polymer with amino-functional groups

Polyoxypropylenediamine Tetraethylenepentamine

· Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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.

Immediately call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER/ 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.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:	· Dangerous components:		
CAS: 100-51-6	Benzyl alcohol	30-60%	
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319		
EC number: 949-140-2	Polymer with amino-functional groups	10-30%	
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317		
CAS: 2855-13-2	Isophorone diamine	≥10-<25%	
EINECS: 220-666-8	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4,		
Reg.nr.: 01-2119514687-32	· · · · · · · · · · · · · · · · · · ·		
	Chronic 3, H412		
	ATE: LD50 oral: 1030 mg/kg		
	Specific concentration limit: Skin Sens. 1A; H317: C ≥		
	0.001 %		
	/0-	ntd on nago 3)	

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CAS: 9046-10-0	Polyoxypropylenediamine	≥5-<10%
Reg.nr.: 01-2119557899-12	Skin Corr. 1B, H314; Aquatic Chronic 3, H412	
CAS: 90640-66-7	Tetraethylenepentamine	≥2.5-<5%
EINECS: 292-587-7 Reg.nr.: 01-2119487290-37	Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 90-72-2	2,4,6-Tri-(dimethylaminomethyl)phenol	≥3-<5%
EINECS: 202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4,	
Reg.nr.: 2119560597-27	H302	
· Additional information	For the wording of the listed hazard phrases refer to se	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. In case of contact with skin, wash carefully with plenty of soap and

After skin contact In case of contact with skin, wash carefully with plenty of soap

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: 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.

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· 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).

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)

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 8*A*

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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

	ring at the workplace: The product with critical v	alues that have to be monitored at the workplace.
DNELs		
CAS: 1	00-51-6 Benzyl alcohol	
Oral DNEL 4 mg/kg bw/Tag (Ar		
	20 mg/kg bw/Tag (Ark)	
Dermai	DNEL 8 mg/kg bw/day (ArL)	
	40 mg/kg bw/day (Ark)	
Inhalati	ve DNEL 22 mg/m³ (ArL)	
	110 mg/m³ (Ark)	
CAS: 2	855-13-2 Isophorone diamine	
Oral	DNEL 0.526 mg/kg bw/Tag (ArL)	
Inhalati	ve DNEL 20.1 mg/m³ (ArL)	
CAS: 9	046-10-0 Polyoxypropylenediamine	
Oral	DNEL 0.04 mg/kg bw/Tag (ArL)	
Derma	DNEL 2.5 mg/kg bw/day (ArL)	
CAS: 9	0-72-2 2,4,6-Tri-(dimethylaminometh	ıyl)phenol
Inhalati	ve DNEL 0.31 mg/m³ (ArL)	
PNECs		
CAS: 1	00-51-6 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 sedimen	<i>t</i>)
CAS: 2	855-13-2 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 sedime	nt)
CAS: 9	046-10-0 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)	

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0.132 mg/kg dwt (Fresh water sediment)

CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol

PNEC 0.2 mg/l (Sewage Treatment Plant)

0.0084 mg/l (Mew) 0.084 mg/l (Freshwater)

• 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 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

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Penetration time: ≥ 480 min Tight-fitting safety goggles. · Eye/face protection

Safety goggles. · 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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Liquid Yellow · Colour: · Smell: Amine-like · Odour threshold: Not determined. Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 205.3 °C (CAS: 100-51-6 Benzyl alcohol) · Flammability Not applicable.

· 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: 100.4 °C

· Auto-ignition temperature: 380 °C (CAS: 2855-13-2 Isophorone diamine)

· Decomposition temperature: Not determined.

Mixture reacts violently with water. · pH

Not determined.

· Viscosity:

· Kinematic viscosity Not determined. · dynamic: Not determined.

Solubility

Fully miscible · Water:

· Partition coefficient n-octanol/water (log

Not determined. value)

· Steam pressure at 20 °C: 0.2 hPa (CAS: 100-51-6 Benzyl alcohol)

· Vapour pressure at 50 °C: 0.7 hPa

Density and/or relative density

· Density at 20 °C 1.03 g/cm3 · Relative density Not determined. · Vapour density Not determined.

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· 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.

Change in condition

Not determined. · Evaporation rate

· Information with regard to physical hazard

classes

Void · Explosives Void · Flammable gases Void · Aerosols · Oxidising gases Void · 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

Void flammable gases in contact with water 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 · 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

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Acute tox	icity H	armful if swallowed.
LD/LC50	values that are relevant	t for classification:
CAS: 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)
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: 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: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol		
Oral	LD50	mg/kg (rat)
	NOAEL	15 mg/kg (rat)
		l .

Primary irritant effect:

· **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.
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· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.



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SECTION 12: Ecological information · 12.1 Toxicity · Aquatic toxicity: CAS: 100-51-6 Benzyl alcohol 700 mg/l (algae) IC50/72h LC50/96h 460 mg/l (Pimephales promelas) 10 mg/l (Lepomis macrochirus) CAS: 2855-13-2 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: 9046-10-0 Polyoxypropylenediamine EC50/72h | 15 mg/l (algae) LC50/96h |>15 mg/l (fish) EC50/48h 80 mg/l (daphnia) CAS: 90-72-2 2,4,6-Tri-(dimethylaminomethyl)phenol EC50/72h 84 mg/l (Desmodesmus subspicatus) LC50/96h 175 mg/l (Cyp) 718 mg/l (Daphnia magna) NOEC 2 mg/l (BEL) 6.25 mg/l (Desmodesmus subspicatus)

· 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.

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- · 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.

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.

	, ,		
· Europ	· European waste catalogue		
HP6	Acute Toxicity		
	Corrosive		
HP13	Sensitising		
HP14	Ecotoxic		

· 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	UN2289
14.2 UN proper shipping name ADR, IMDG, IATA	ISOPHORONEDIAMINE solution
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	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category	Warning: Corrosive substances. 80 F-A,S-B A





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Segregation Code	SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according IMO instruments	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 E
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 2289 ISOPHORONEDIAMINE SOLUTION, 8 III

SECTION 15: Regulatory information

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

substance or mixture No

No further relevant information available.

· REGULATION (EC) No 1907/2006 ANNEX XVII

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.

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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

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.

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: 16.10.2021

· Version number of previous

version: 40

· 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

ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Corr. 1C: Skin corrosion/irritation – Category 1C 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

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Skin Sens. 1B: Skin sensitisation – 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

* Data compared to the previous version altered.

- IE