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

Printing date 20.11.2021

Version number 14

Revision: 22.10.2021

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

#### 1.1 Product identifier

Trade name **MC-DUR 1680 - Komponente A**

#### 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 Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS05 GHS07 GHS09

##### Signal word

Danger

##### Hazard-determining

##### components of labelling:

Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin

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- **Hazard statements**
  - Polyoxypropylenediamine
  - Phenol, methylstyrolisiert
  - polymer amine terminated
  - 2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid
  - Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine)
  - m-phenylenebis(methylamine)
  - 3,6-diazaoctanethylenediamin
  - Bis[(dimethylamino)methyl]phenol
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H317 May cause an allergic skin reaction.
  - H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves / eye protection / face protection.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - 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:**
  - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 38640-62-9 EINECS: 254-052-6 Reg.nr.: 01-2119565150-48-0000	Diisopropylnaphthalin-Isomere Asp. Tox. 1, H304; Aquatic Chronic 2, H411	≥2.5-<10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	≥0.1-<10%
CAS: 64742-16-1 EINECS: 265-116-8	Kohlenwasserstoffharz Aquatic Chronic 4, H413	<10%
EC number: 905-588-0 Reg.nr.: 01-2119488216-32 01-2119486136-34	Reaction mass of ethylbenzene and xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<5%

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CAS: 68919-79-9 Reg.nr.: 01-2119490750-36	Fettsäuren, Tallöle, Reaktionsprodukt mit Triethylentetramin Skin Corr. 1C, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≥2.5-<3%
CAS: 68512-30-1	Phenol, methylstyrolisiert Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥2.5-<3%
CAS: 61788-44-1 EINECS: 262-975-0	2,4,6-Tris-(1-Phenyl-Ethyl) carboic acid Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<2.5%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12	Polyoxypropylenediamine Skin Corr. 1B, H314; Aquatic Chronic 3, H412	≥1-<2.5%
	polymer amine terminated Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥0.1-<1%
CAS: 161278-35-9	Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.1-<1%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50	m-phenylenebis(methylamine) Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<1%
CAS: 112-24-3 EINECS: 203-950-6	3,6-diazaoctanethylenediamin Skin Corr. 1B, H314; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.5%
CAS: 71074-89-0	Bis[(dimethylamino)methyl]phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	≥0.1-<0.5%
CAS: 69-72-7 EINECS: 200-712-3	salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	<0.5%

**Additional information**

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** 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** Do not induce vomiting; instantly call for medical help.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **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:** 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).
- **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 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.

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

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**SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters
- Additional information about design of technical systems: No further data; see item 7.

· Components with critical values that require monitoring at the workplace:

**1477-55-0 m-phenylenebis(methylamine)**

OEL (Ireland) Long-term value: 0.1 mg/m<sup>3</sup>

· DNELs

**Reaction mass of ethylbenzene and xylene**

Oral	DNEL	1.6 mg/kg bw/Tag (ArL) mg/kg bw/Tag (Workers)
Dermal	DNEL	180 mg/kg bw/day (ArL)
Inhalative	DNEL	211 mg/m <sup>3</sup> (ArL)

**9046-10-0 Polyoxypropylenediamine**

Oral	DNEL	0.04 mg/kg bw/Tag (ArL)
Dermal	DNEL	2.5 mg/kg bw/day (ArL)

**1477-55-0 m-phenylenebis(methylamine)**

Dermal	DNEL	0.33 mg/kg bw/day (Workers)
Inhalative	DNEL	1.2 mg/m <sup>3</sup> (Workers)

· PNECs

**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)

**1477-55-0 m-phenylenebis(methylamine)**

PNEC	10 mg/l (Kla) 0.009 mg/l (Mew) 0.094 mg/l (Suw)
PNEC	0.045 mg/kg dwt (Bod) 0.43 mg/kg dwt (Marine water sediment) 0.43 mg/kg dwt (Fresh water sediment)

· Additional Occupational Exposure Limit Values for possible hazards during processing:

**1330-20-7 xylene**

OEL (Ireland)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Sk, IOELV
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IOELV (European Union)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin
<b>100-41-4 ethylbenzene</b>	
OEL (Ireland)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Sk, IOELV
IOELV (European Union)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **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.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.
- **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 protection:** Safety glasses  
Tightly sealed safety glasses.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Colour:** Dark brown
  - Smell:** Characteristic
- **Change in condition**
  - Melting point/freezing point:** Not determined
  - Initial boiling point and boiling range:** 245 °C
- **Flash point:** 130 °C
- **Ignition temperature:** 435 °C
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Critical values for explosion:**
  - Lower:** 1.3 Vol %

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<b>Upper:</b>	13.0 Vol %
· <b>Steam pressure at 20 °C:</b>	0.1 hPa
· <b>Density at 20 °C</b>	1.8 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Viscosity: dynamic at 20 °C:</b>	40000 mPas
· <b>9.2 Other information</b>	No further relevant information available.

**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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**38640-62-9 Diisopropyl-naphthalin-Isomere**

Oral	LD50	>4000 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rat)
Inhalative	LC50 OECD 403	>5.6 mg/l (rat)

**13463-67-7 titanium dioxide**

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

**Reaction mass of ethylbenzene and xylene**

Oral	LD50	3523-4000 mg/kg (rat)
Dermal	LD50	12126 mg/kg (rabbit)
Inhalative	LC50/4 h	6350-6700 mg/l (rat)

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<b>9046-10-0 Polyoxypropylenediamine</b>		
Oral	LD50	2855 mg/kg (Rat)
Dermal	LD50	2980 mg/kg (Kan)
<b>1477-55-0 m-phenylenebis(methylamine)</b>		
Oral	LD50	1180 mg/kg (mouse)
		930 mg/kg (rat)
Dermal	LD50	>3100 mg/kg (rabbit)
<b>112-24-3 3,6-diazaoctanethylenediamin</b>		
Oral	LD50	1716.2 mg/kg (rat)
Dermal	LD50	1720 mg/kg (rat)
<b>69-72-7 salicylic acid</b>		
Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**38640-62-9 Diisopropylnaphthalin-Isomere**

EC50/72h	0.15 mg/l (algae)
LC50/48h	1.7 mg/l (Daphnia magna)
EC50/48h	0.16 mg/l (Daphnia magna)

**Reaction mass of ethylbenzene and xylene**

EC50/72h	2.2 mg/l (Selenastrum capricornutum)
LC50/96h	2.6 mg/l (Oncorhynchus mykiss)
NOEC	16 mg/l (BEL)

**1477-55-0 m-phenylenebis(methylamine)**

IC50/72h	12 mg/l (algae)
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EC50/72h 12 mg/l (*Scenedesmus subspicatus*)

LC50/96h >100 mg/l (*Oncorhynchus mykiss*)

87.6 mg/l (*Ory*)

EC50/48h 15.2 mg/l (*Daphnia magna*)

- **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.
- **Additional ecological information:**
- **General notes:** Danger to drinking water if even extremely small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

#### 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.

· **European waste catalogue**

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01 00 wastes from MFSU and removal of paint and varnish

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

#### SECTION 14: Transport information

· **14.1 UN-Number**  
· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**  
· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**  
· **ADR, ADN, IMDG, IATA**  
· **Class** Void

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· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

#### SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **REGULATION (EC) No 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.

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**· 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**

H226 *Flammable liquid and vapour.*  
H302 *Harmful if swallowed.*  
H304 *May be fatal if swallowed and enters airways.*  
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.*  
H351 *Suspected of causing cancer.*  
H361d *Suspected of damaging the unborn child.*  
H373 *May cause damage to organs through prolonged or repeated exposure.*  
H400 *Very toxic to aquatic life.*  
H410 *Very toxic to aquatic life with long lasting effects.*  
H411 *Toxic to aquatic life with long lasting effects.*  
H412 *Harmful to aquatic life with long lasting effects.*  
H413 *May cause long lasting harmful effects to aquatic life.*

**· 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*  
*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*  
*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*  
*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

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*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*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

*Carc. 2: Carcinogenicity – Category 2*

*Repr. 2: Reproductive toxicity – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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*

*Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*

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

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