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Safety data sheet according to UK REACH

Printing date 29.08.2024 Version number 7 Revision: 29.08.2024

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

- · 1.1 Product identifier
- · Trade name: 021 Euroblock Reno LE component B
- · Article number: 021-B LE
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / preparation Crosslinker
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Forbo Eurocol Nederland B.V.

Industrieweg 1-2

NL-1521 NA Wormerveer Holland

Tel. +31 75 6271620

E-mail address: info.eurocol@forbo.com

Website: www.eurocol.com

· 1.4 Emergency telephone number:

In case of emergency please contact the Dutch National Poison Control, telephone number: 0031-(0)88-755 8000 (This number is only accessible to the physician treating the patient and only in case of accidental poisoning).

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.

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 GB CLP regulation.

Hazard pictograms







GHS05 GHS07 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

Polyoxyproprylendiamine

2,4,6-tris(dimethylaminomethyl)phenol

phenol, styrenated

m-phenylenebis(*methylamine*)

isophorone diamine

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3,3,5-trimethylhexamethylene-diamine

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

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.

· Additional information:

EUH071 Corrosive to the respiratory tract.

Restricted to professional users.

- · 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: Epoxy resin crosslinker

CAS: 61788-44-1	phenol, styrenated	>25-50%
EINECS: 262-975-0	Aquatic Chronic 2, H411; 🕦 Skin Irrit. 2, H315; Skin Sens. 1A, H317	
CAS: 9046-10-0	Polyoxyproprylendiamine	
	♦ Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	
CAS: 39423-51-3	Polyoxypropyleen triamine	>10-25%
	Eye Dam. 1, H318; ♦ Aquatic Chronic 2, H411; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315	
CAS: 1477-55-0	m-phenylenebis(methylamine)	>5-10%
EINECS: 216-032-5	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	
CAS: 2855-13-2 EINECS: 220-666-8	isophorone diamine	>5-10%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; (1) Acute Tox. 4, H302; Skin Sens. 1A, H317	
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>5-10%
EINECS: 202-013-9	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 25513-64-8	3,3,5-trimethylhexamethylene-diamine	<1%
	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 61788-46-3	cocoalkylamine	<1%
EINECS: 262-977-1	♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	
	♠ Acute Tox. 4, H302; STOT SE 3, H335	

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· 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
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

In case of unconsciousness place patient stably in side/recovery position for transportation.

After skin contact:

After contact with skin, wash immediately with plenty of soap and water. Take off immediately and wash contaminated clothing before reuse. Medical treatment necessary.

After eye contact:

Rinse eyes with open eyelid for a few minutes under running water and immediately consult an eye doctor.

After swallowing:

Do not induce vomiting. Rinse mouth thoroughly and drink plenty of water (only if person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water haze. Fight larger fire with alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water spray
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid contact with eyes and skin.

Use personal protective equipment.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Take up with liquid-binding substances (sand, diatomaceous earth, acid binder, universal binder).

Dispose contaminated material as waste according to section 13.

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· 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 disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool, but frost-proof location.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Recommended storage temperature between 10 and 30°C.

Store cool and dry in closed original packaging.

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

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see section 7.
- · Ingredients with limit 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			
61788-44-	1 phenol, styrenated		
Dermal	DNEL long term	2.1 mg/kg KG/d (worker)	
Inhalative DNEL		7.4 mg/m³ (worker)	
39423-51-	3 Polyoxypropyleen triamii	ne	
Dermal	DNEL long term	4 mg/kg KG/d (worker)	
Inhalative	DNEL Inhalative long terme	4.9 /mg/m³ (worker)	
1477-55-0	m-phenylenebis(methylan	nine)	
Dermal	DNEL long term	0.33 mg/kg KG/d (LT)	
Inhalative	DNEL	1.2 mg/m³ (LT)	
2855-13-2	isophorone diamine		
Inhalative	DNEL inhalation short term	0.073 mg/m³ /mg/m³ (worker)	
	DNEL	0.073 mg/m³ (LT)	
		0.073 mg/m³ (Short term)	
PNECs			
61788-44-	1 phenol, styrenated		
PNEC mg/	/I 0.014 mg/l (Sea Water)		
	0.0015 mg/l (Fresh Wate	er)	
PNEC mg/	/kg 0.018 mg/kg (Soil)	0.018 mg/kg (Soil)	
	0.125 mg/kg (Sea Water	Sediment)	
	0.132 mg/kg (Fresh Wat	er Sediment)	
		(Contd. on page	

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1477-55-0 m-	phenylenebis(methylamine)
PNEC mg/l	0.009 mg/l (Sea Water)
	0.094 mg/l (Fresh Water)
PNEC mg/kg	0.045 mg/kg (Soil)
	0.043 mg/kg (Sea Water Sediment)
	0.43 mg/kg (Fresh Water Sediment)
2855-13-2 isc	pphorone diamine
PNEC mg/l	1.121 mg/l (Soil)
	0.0094 mg/l (Sea Water)
	0.578 mg/l (Sea Water Sediment)
	0.094 mg/l (Fresh Water)
	5.784 mg/l (Fresh Water Sediment)
90-72-2 2,4,6	-tris(dimethylaminomethyl)phenol
PNEC mg/l	0.005 mg/l (Sea Water)
	0.046 mg/l (Fresh Water)
PNEC mg/kg	0.025 mg/kg (Soil)
	0.026 mg/kg (Sea Water Sediment)
	0.262 mg/kg (Fresh Water Sediment)
A al al !4! a a l !	formation: The lists valid during manufacture were used as basis

- Additional information: The lists valid during manufacture were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

· Respiratory protection:

Not necessary if room is well-ventilated.

In case of intensive resp., long-term exposure use respiratory protection. Filter against organic vapours. Filter A

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material is dependent on the penetration times, rates of diffusion and degradation.

Material of gloves

Gloves that protect against chemicals with the CE marking including the four-digit control number may be worn when handling chemical substances. Protective gloves against chemicals must be selected in their design depending on the concentration of the hazardous material and quantity, specifically for the workplace. It is recommended to inquire about the chemical resistance of the above-mentioned protective gloves for special use with the glove manufacturer. Recommendation to EN 374: amendment of butyl rubber/nitrile rubber > (0.4 mm) Contaminated gloves must be removed: for short term use or splash protection. For permanent exposure: Viton (0.4mm) breakthrough time > 30 min.

Penetration time of glove material

The exact break through time has to be established by the manufacturer of the protective gloves and has to be observed.

· For prolonged contact gloves made of the following materials are suitable: Viton gloves.

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· Eye protection:



Tightly sealed goggles

Tightly sealed goggles by risk of splashing. Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- · General Information

· Change in condition

· Appearance:

Form: Fluid
Colour: Yellow
Odour: Amine-like
Odour threshold: Not determined.

pH-value: Not determined.

pri value.

Undetermined.

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: Undetermined.

· Flash point: 112 °C

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

· **Ignition temperature**: Product is not self-igniting.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

· Vapour pressure at 25 °C: ~0 hPa

Density at 23 °C:
 Relative density
 Vapour density
 Evaporation rate
 1.03 g/cm³
 Not determined.
 Not determined.
 Not determined.

· Solubility in / Miscibility with

water: Partly soluble, not miscible with water.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic at 25 °C: 200-320 mPas (ISO 2884-1)

Kinematic: Not determined.

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Strong exothermic reaction with acids.

Reacts with oxidising agents.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Corrosive gases/vapours

Ammonia

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· I D/I C50 values relevant for classification:

· Acute toxicity

Harmful if swallowed.

Oral	values relevant for cla ATE	
		1,809 mg/kg (Not specified)
Dermal	ATE	>5,000 mg/kg (Not specified)
Inhalative	•	>50 mg/l (Not specified)
	ATE Inhalative mist	5 mg/l (Not specified)
61788-44-	1 phenol, styrenated	
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>7,940 mg/kg (rabbit)
9046-10-0	Polyoxyproprylendia	mine
Oral	LD50	2,885 mg/kg (rat)
Dermal	LD50	2,980 mg/kg (rabbit)
39423-51-	3 Polyoxypropyleen ti	riamine
Oral	LD50	220 mg/kg (rat)
Dermal	LD50	552 mg/kg (rabbit)
1477-55-0	m-phenylenebis(meti	hylamine)
Oral	LD50	930 mg/kg (rat)
Dermal	LD50	>3,100 mg/kg (rabbit)
Inhalative	LC50/4 h	1.34 mg/l (rat)
2855-13-2	isophorone diamine	
Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (rat)
Dermal	ATE	1,100 mg/kg (rat)
Inhalative	LC50/4 h	>5.01 mg/l (rat)
90-72-2 2,	4,6-tris(dimethylamin	omethyl)phenol
Oral	LD50	2,169 mg/kg (rat)
	ATE	500 mg/kg (Not specified)
		500 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

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- · Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Corrosive to respiratory system.
- · CMR effects (carcinogenity, 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.

12.1 Toxicit	у		
Aquatic tox	icity:		
61788-44-1	phenol, styrenated		
	1-10 mg/l (BR)		
	olyoxyproprylendiamin	16	
	>15 mg/l (fish)		
	n-phenylenebis(methyla		
	87.6 mg/l (Oryzias latipe	es)	
ErC50/72 h	20.3 mg/l (Se)		
	20.3 mg/l (Pseudokirchn	perella subcapitata)	
EC50/48 h	16 mg/l (DM)		
	6-tris(dimethylaminome		
	175 mg/l (Cyprinus Carp	•	
	84 mg/l (Demodesmus subspicatus)		
	718 mg/l (Palaemonetes	•	
LC50/96 h	175 mg/l (Cyprinus Carpio)		
12.2 Persist	ence and degradability	1	
	n-phenylenebis(methyla	amine)	
OECD 301-B 49		9 %/28 d (Not specified)	
	sophorone diamine		
Persistentie	en afbreekbaarheid 8	% / 28 d (OECD 301A)	
	6-tris(dimethylaminome	÷ 7.	
OECD 301/L	D EEC 92/69/V, C.4-E 4	% / 28 d (Not specified)	
12.3 Bioacc	umulative potential		
61788-44-1	phenol, styrenated		
BCF	-	69-190 BCF (Not specified)	
1477-55-0 n	n-phenylenebis(methyla	amine)	
Verdelingsc	oëfficient n-octanol/water	0.18 [] (log Pow) (Not specified)	
2855-13-2 is	sophorone diamine	1	

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- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Avoid transfer into the environment.

- · 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
- Uncleaned packaging:

· Class

· Label

- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Warm water, if necessary together with cleansing agents.

14.1 UN-Number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (In post of the
IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (Iphenylenebis (methylamine)
14.3 Transport hazard class(es)	
ADR, IMDG	
Class Label	8 Corrosive substances. 8

8 Corrosive substances.

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(Contd. of page 9) · 14.4 Packing group ADR. IMDG. IATA · 14.5 Environmental hazards: Product contains environmentally hazardous substances: phenol, styrenated · Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Corrosive substances. Hazard identification number (Kemler code): F-A,S-B · EMS Number: Segregation groups Alkalis Stowage Category SG35 Stow "separated from" SGG1-acids Segregation Code · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category Tunnel restriction code Ε · IMDG · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE), POLYOXYPROPRYLENDIAMINE), 8, 11, **ENVIRONMENTALLY HAZARDOUS**

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Information about limitation of use:

Observe work restrictions according to the law on the protection of young people at work (94/33/EC). Observe work restrictions in accordance with the Pregnancy Directive (92/85/EEC) for expectant or nursing mothers.

15.2 Chemical safety assessment:

A substance safety assessment has been carried out for the following substances in this mixture: Phenol, styrenated

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Poly[ody(methyl-1,2-ethanediyl)], alpha-(2-aminomethylethyl)-,omega,-(2-aminomethylethoxy)-mxylenediamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2,4,6-tri(dimethylaminomethyl)phenol

2.4.6-tri(dimethylaminomethyl)phenol

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.

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.

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.

· Department issuing SDS: R&D department

· Contact: Ing. T.W. Breeuwer

Abbreviations and acronyms:

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 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

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

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

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

* Data compared to the previous version altered.