

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

1.1 Product identifier

Trade name: MxQ-PITC Plate

UFI: TEC0-P0T8-H00N-T3FD

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture

96-well plate used for sample preparation

For research use only. Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

biocrates life sciences ag

Eduard-Bodem-Gasse 8

A-6020 Innsbruck

T: +43 512 57 98 23

F: +43 512 57 98 23 329

Further information obtainable from: Email: office@biocrates.com

1.4 Emergency telephone number:

+43 512 57 98 23

Available during office hours:

Mo-Fr: 9 a.m. - 5 p.m.

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

Repr. 1A H360 May damage fertility or the unborn child.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Additional information: For the wording of the hazard categories, see section 16.

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



GHS07



GHS08



GHS09

Trade name: MxQ-PITC Plate

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Signal word Danger

Hazard-determining components of labelling:

1,2-Diphytanoyl-sn-glycero-3-phosphocholine

Hazard statements

H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

20.7 % of the mixture consists of component(s) of unknown toxicity.

Contains 20.7 % of components with unknown hazards to the aquatic environment.

Restricted to professional users.

2.3 Other hazards

The product contains not fully tested substances and must be used with the required caution.

Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

Determination of endocrine-disrupting properties

CAS: 128-37-0 Butylhydroxytoluene

List II




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

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

[% (w/w)]

CAS: 128-37-0 EINECS: 204-881-4 RTECS: GO 7875000 Reg.nr.: 01-2119555270-46-XXXX	Butylhydroxytoluene	50 - < 75%
	 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 207131-40-6	1,2-Diphytanoyl-sn-glycero-3-phosphocholine	1 - < 2.5%
	 Repr. 1A, H360  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

(Contd. on page 3)

Trade name: MxQ-PITC Plate

(Contd. of page 2)

CAS: 1257525-73-7	Dehydroepiandrosterone-2,2,3,4,4,6-d6 sulfate sodium salt	1 - < 2.5%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 73565-87-4	Hydrocortisone-9,11,12,12-d4	< 0.5%
	⚠ Repr. 2, H361	

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:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

Immediately remove any clothing soiled by the product.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Seek medical treatment in case of complaints.

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

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment in case of complaints.

After swallowing:

Do NOT induce vomiting.

Rinse mouth.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Dust can form explosive mixtures with air.

Explosive mixtures with air are possible when heated.

During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)

Trade name: MxQ-PITC Plate

(Contd. of page 3)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

Do not inhale explosion gases or combustion gases.

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

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe dust.

Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

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

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

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 disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Prevent formation of dust.

Take off immediately all contaminated clothing and wash it before reuse.

Do not breathe dust.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

(Contd. on page 5)

Trade name: MxQ-PITC Plate

(Contd. of page 4)

Information about fire - and explosion protection:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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 dry, cool, well-ventilated area.

Store in accordance with local/regional/national/international regulations.

Information about storage in one common storage facility: Store away from incompatible materials.**Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

Storage class: 6.1 C**7.3 Specific end use(s)** No further relevant information available.*** SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 128-37-0 Butylhydroxytoluene**

MAK (Austria)	Long-term value: 10 mg/m ³
AGW (Germany)	Long-term value: 10 E mg/m ³ 4 (II);DFG, Y, 11
LEP (Spain)	Long-term value: 10 mg/m ³
VLEP (France)	Long-term value: 10 mg/m ³
WEL (Great Britain)	Long-term value: 10 mg/m ³
TWA (Italy)	Long-term value: 2 mg/m ³ A4, (i, h)

Regulatory information

MAK (Austria): GKV 2021, 330. Verordnung, 02.12.2024, Teil 2

AGW (Germany): TRGS 900

LEP (Spain): Límites de exposición profesional para agentes químicos

VLEP (France): ED 1487 26.04.2024

WEL (Great Britain): EH40/2020

TWA (Italy): Valori Limite di Soglia

DNELs**CAS: 128-37-0 Butylhydroxytoluene**

Oral	Long-term exposure - systemic effects	0.25 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	0.25 mg/kg bw/d (consumer) 0.5 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	0.435 mg/m ³ (consumer) 1.76 mg/m ³ (workers)

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Trade name: MxQ-PITC Plate

(Contd. of page 5)

PNECs

CAS: 128-37-0 Butylhydroxytoluene

fresh water	0.199 µg/l
sea water	0.02 µg/l
intermittent release (fresh water)	1.99 µg/l
STP	0.017 mg/l
sediment (fresh water)	0.458 mg/kg dw
sediment (sea water)	0.046 mg/kg dw
soil	0.054 mg/kg dw
oral	16.67 mg/kg food

Additional information: The lists valid during the making 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:

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

Keep away from foodstuffs, beverages and feed.

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

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Do not breathe dust.

Take off immediately all contaminated clothing and wash it before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 7)

Trade name: MxQ-PITC Plate

(Contd. of page 6)

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

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

Eye/face protection



Tightly sealed goggles

EN 166

Body protection:

Protective work clothing

Select type and quality of protection clothes depending on concentration and quantity at the workplace.

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Solid

Colour:

Colourless

Odour:

Odourless

Odour threshold:

No information available.

Melting point/freezing point:

No information available.

Boiling point or initial boiling point and boiling range

No information available.

Flammability

combustible

Lower and upper explosion limit

Lower:

No information available.

Upper:

No information available.

Flash point:

Not applicable.

Decomposition temperature:

No information available.

pH

Not applicable.

Viscosity:

Kinematic viscosity

Not applicable.

Dynamic:

Not applicable.

Solubility

water:

No information available.

Partition coefficient n-octanol/water (log value)

128-37-0	Butylhydroxytoluene	5,03 log Kow
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(Contd. on page 8)

Trade name: MxQ-PITC Plate

(Contd. of page 7)

Vapour pressure: Not applicable.

Density and/or relative density

Density: No information available.

Vapour density No information available.

Particle characteristics See section 3.

9.2 Other information

Appearance:

Form: Solid

Important information on protection of health and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

Oxidising properties No information available.

Evaporation rate No information available.

Information with regard to physical hazard classes

Explosives void

Flammable gases void

Aerosols void

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 flammable

gases in contact with water void

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 No further relevant information available.

10.3 Possibility of hazardous reactions No further relevant information available.

10.4 Conditions to avoid

Avoid formation of dust.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials: oxidizing agent

(Contd. on page 9)

Trade name: MxQ-PITC Plate

(Contd. of page 8)

10.6 Hazardous decomposition products: No further relevant information available.* **SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

20.7 % of the mixture consists of component(s) of unknown toxicity.

Acute toxicity Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral	LD50	81,978 mg/kg
Dermal	LD50	245,933 mg/kg (rat)
Inhalative	LC50/4 h	2,459 mg/l

CAS: 128-37-0 Butylhydroxytoluene

Oral	LD50	> 6,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

CAS: 73565-87-4 Hydrocortisone-9,11,12,12-d4

Oral	LD50	> 1,234,567 mg/kg (rat)
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Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

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**

May damage fertility or the unborn child.

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.**11.2 Information on other hazards****Endocrine disrupting properties**

CAS: 128-37-0 Butylhydroxytoluene

List II

Other information

To our knowledge, the chemical, physical and toxicological properties of the product have not been comprehensively investigated.

Unknown dangers cannot be ruled out.

* **SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

Contains 20.7 % of components with unknown hazards to the aquatic environment.

(Contd. on page 10)

Trade name: MxQ-PITC Plate

(Contd. of page 9)

CAS: 128-37-0 Butylhydroxytoluene

LC50 (96 h)	1.1 mg/l (fish) (<i>Oryzias latipes</i>)
LC50 (48 h)	0.84 mg/l (daphnia) (<i>Daphnia magna</i>)
EC50 (96 h)	> 7 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i>)
NOEC (21 d)	0.069 mg/l (daphnia) (<i>Daphnia magna</i>)

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: No data available.

vPvB: No data available.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 03 05*	organic wastes containing hazardous substances
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP10	Toxic for reproduction
HP14	Ecotoxic

Uncleaned packaging:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA

UN3077

(Contd. on page 11)

Trade name: MxQ-PITC Plate

(Contd. of page 10)

14.2 UN proper shipping name
ADR/RID/ADN

3077 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S. (Butylhydroxytoluene)

IMDG

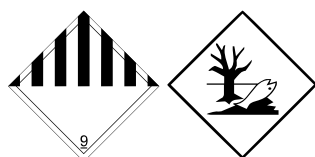
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Butylhydroxytoluene), MARINE
POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Butylhydroxytoluene)

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

Symbol (fish and tree)

Special marking (ADR/RID/ADN):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and
articles.

Hazard identification number (Kemler code):

90

EMS Number:

F-A,S-F

Stowage Category

A

Stowage Code

SW23 When transported in BK3 bulk container, see
7.6.2.12 and 7.7.3.9.

**14.7 Maritime transport in bulk according to IMO
instruments**

Not applicable.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ)

5 kg

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Transport category

3

Tunnel restriction code

(-)

IMDG

Limited quantities (LQ)

5 kg

(Contd. on page 12)

Trade name: MxQ-PITC Plate

(Contd. of page 11)

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS
S U B S T A N C E , S O L I D , N . O . S .
(BUTYLHYDROXYTOLUENE), 9, III

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 E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 69

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.

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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Trade name: MxQ-PITC Plate

(Contd. of page 12)

Relevant phrases

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.
H361 Suspected of damaging fertility or the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Training hints

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.
Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Classification according to Regulation (EC) No 1272/2008

Skin sensitisation Reproductive toxicity Hazardous to the aquatic environment - short-term (acute) aquatic hazard Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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Department issuing SDS:

UmEnA GmbH
<http://umena.at>
Email: office@umena.at

Date of previous version: 15.05.2025

Version number of previous version: 1.0

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 (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
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1A: Reproductive toxicity – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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Trade name: MxQ-PITC Plate

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Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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