

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

Printing date 18.07.2018

Version number 2

Revision: 18.07.2018

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

- **1.1 Product identifier**
- **Trade name:** Ätzmittel für PTFE
- **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** Discharging agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Spengler Fluorkunststoffe GmbH & Co. KG  
Buchenring 20  
D-42281 Wuppertal  
Tel.: +49 202 8702790  
Fax: +49 202 8702786  
Website: www.sp-ptfe.de  
e-Mail: info@sp-ptfe.de
- **Informing department:**  
Phone: +49 202 8702790  
Fax.: +49 202 8702786
- **1.4 Emergency telephone number:** Phone +49 202 8702790

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2          H225 Highly flammable liquid and vapour.



GHS08 health hazard

Carc. 2                  H351 Suspected of causing cancer.



GHS05 corrosion

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

Eye Dam. 1          H318 Causes serious eye damage.



GHS09 environment

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

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GHS07

STOT SE 3      H335 May cause respiratory irritation.

### 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



GHS02   GHS05   GHS07   GHS08   GHS09

#### Signal word Danger

#### Hazard-determining components of labelling:

tetrahydrofuran  
sodium  
naphthalene

#### Hazard statements

H225 Highly flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P102      Keep out of reach of children.  
P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261      Avoid breathing mist/vapours/spray.  
P273      Avoid release to the environment.  
P280      Wear protective gloves/protective clothing/eye protection/face 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.  
P403+P235      Store in a well-ventilated place. Keep cool.  
P405      Store locked up.  
P501      Dispose of contents/container in accordance with local / regional / national / international regulations.

#### Additional information:

Packaging of whatever capacity that is delivered to the general public shall be fitted with a tactile warning of danger according to EN ISO 11683.

Packaging of whatever capacity supplied to the general public shall be fitted with child-resistant fastenings.

EUH019 May form explosive peroxides.

#### 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.

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**· Dangerous components:**

CAS: 109-99-9 EINECS: 203-726-8 Reg.nr.: 01-2119444314-46-X	tetrahydrofuran ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	50 - 100%
CAS: 91-20-3 EINECS: 202-049-5 Reg.nr.: 01-2119561346-37-X	naphthalene ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥ 10 - < 25%
CAS: 7440-23-5 EINECS: 231-132-9 Reg.nr.: 01-2119484805-27-X	sodium ⚠ Water-react. 1, H260; ⚠ Skin Corr. 1B, H314	≥ 5 - ≤ 10%

· **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**

Instantly remove any clothing contaminated by the product.  
If symptoms occur or in case of doubt consult a doctor.

· **After inhalation**

Take affected persons into the open air and position comfortably  
Call a doctor immediately.

· **After skin contact**

Remove contaminated clothing.  
Instantly wash with water and soap and rinse thoroughly.  
In case of permanent aches and pains please go and see the doctor.  
If skin irritation continues, consult a doctor.

· **After eye contact**

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.  
Call a doctor immediately.

· **After swallowing**

Rinse out mouth and then drink plenty of water.  
Instantly call for doctor.

· **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**

Extinguishing powder, carbon dioxide.  
Sand

· **For safety reasons unsuitable extinguishing agents** Water.

· **5.2 Special hazards arising from the substance or mixture**

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

Can form explosive gas-air mixtures.

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Metal oxides

Strongly alkaline solutions originate from the use of water for fire fighting.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus.

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· **Additional information**

Cool closed containers near by fire source with water.

Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.

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**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Ensure adequate ventilation

Avoid contact with the product.

· **6.2 Environmental precautions:**

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

Do not allow to enter pits and cellars.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Send for recovery or disposal in suitable containers.

Complete cleaning with water.

· **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**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Avoid contact with eyes, skin and clothes.

Do not inhale gases/vapours/aerosols.

Do not eat, drink or smoke while working.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Accessible only for authorized persons.

Store only in the original container.

Ensure sufficient ventilation.

· **Information about storage in one common storage facility:**

Keep away from strong oxidizing, alkalis and acidic materials.

· **Further information about storage conditions:**

Must be stored in a collecting room.

Keep container tightly sealed.

Storage temperature < 10°C.

Protect from heat and direct sunlight.

Protect from humidity and keep away from water.

· **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**
- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

#### 109-99-9 tetrahydrofuran

WEL (Great Britain)	Short-term value: 300 mg/m <sup>3</sup> , 100 ppm Long-term value: 150 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (European Union)	Short-term value: 300 mg/m <sup>3</sup> , 100 ppm Long-term value: 150 mg/m <sup>3</sup> , 50 ppm Skin

#### 91-20-3 naphthalene

IOELV (European Union)	Long-term value: 30 mg/m <sup>3</sup> , 10 ppm
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#### · DNELs

##### 109-99-9 tetrahydrofuran

Oral	DNEL (consumer, long-term, systemic)	1.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	12.6 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	1.5 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	96 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, systemic)	72.4 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, systemic)	52 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	13 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	300 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	150 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	150 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	75 mg/m <sup>3</sup> (human)

##### 91-20-3 naphthalene

Dermal	DNEL (worker, long-term, systemic)	3.57 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	25 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	25 mg/m <sup>3</sup> (human)

#### · PNECs

##### 109-99-9 tetrahydrofuran

PNEC aqua (freshwater)	4.32 mg/L (.)
PNEC aqua (marine water)	0.432 mg/L (.)
PNEC STP	4.6 mg/L (.)
PNEC soil	2.13 mg/kg soil dw (.)
PNEC sediment (freshwater)	23.3 mg/kg sedim. dw (.)
PNEC sediment (marine water)	2.33 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	21.6 mg/L (.)
PNEC oral	67 mg/kg food (.)

##### 91-20-3 naphthalene

PNEC aqua (freshwater)	0.0024 mg/L (.)
PNEC aqua (marine water)	0.0024 mg/L (.)
PNEC STP	2.9 mg/L (.)
PNEC soil	0.0533 mg/kg soil dw (.)

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PNEC sediment (freshwater)	0.0672 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.0672 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.02 mg/L (.)

· **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**

Handle product only in sufficiently ventilated areas.

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

· **Breathing equipment:**

In case of insufficient removal by suction or longer inhalation a breathing protection is required.

Filter Type A.

· **Protection of hands:**



Protective gloves.

There is no suitable material for protective gloves for this substance. The recommended protective glove has to be replaced often

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

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Chloroprene rubber, CR

· **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.

Value for the permeation: Level = 1

· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** Solvent resistant protective clothing

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** Green

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value (200 g/l) at 20 °C:** 7 - 8

· **Change in condition**

**Melting point/freezing point:** ca. -108 °C

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<b>Initial boiling point and boiling range:</b> 65 - 67 °C	
· <b>Flash point:</b>	-20 °C (DIN 51755)
· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	> 115 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	May form explosive peroxides.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	1.5 Vol %
<b>Upper:</b>	12.0 Vol %
· <b>Vapour pressure at 20 °C:</b>	67 mbar
· <b>Density at 20 °C</b>	ca. 0.92 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	0.45 log POW
· <b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	
<b>VOC EU</b>	90 %
· <b>Solids content:</b>	10 %
· <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:** Avoid temperatures above 25°C.
- **10.3 Possibility of hazardous reactions**  
Explosive reaction with water  
In contact with water hydrogen is generated, which can form explosive atmospheres.  
Possible formation of peroxide
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Acids, bases, oxidizers.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Hydrogen

### SECTION 11: Toxicological information

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

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**· LD/LC50 values that are relevant for classification:**
**109-99-9 tetrahydrofuran**

Oral	LD50	2,045 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat) (OECD 402)

**91-20-3 naphthalene**

Oral	LD50	533 mg/kg (mouse) (OECD 401)
Dermal	LD50	> 2,500 mg/kg (rat)
Inhalative	LC50	> 0.4 mg/l/4h (rat) (OECD 403)

**· 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** Based on available data, the classification criteria are not met.

**· Repeated dose toxicity**
**109-99-9 tetrahydrofuran**

Oral	NOAEL (28d)	1,000 mg/kg bw/day (rat) (OECD 407)
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**91-20-3 naphthalene**

Oral	NOAEL (90d)	100 mg/kg bw/day (rat) (OECD 408)
Dermal	NOAEL (90d)	1,000 mg/kg bw/day (rat) (OECD 411)

**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 2

**· Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**· Carcinogenicity**

Suspected of causing cancer.

**· Reproductive toxicity** Based on available data, the classification criteria are not met.

**· STOT-single exposure**

May cause respiratory irritation.

**· 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:**
**109-99-9 tetrahydrofuran**

EC50 (static)	5,930 mg/l/24h (Daphnia magna) (DIN 38412-11)
LC50 (dynamic)	2,160 mg/l/96h (Pimephales promelas) (OECD 203)

**91-20-3 naphthalene**

EC50 (static)	2.16 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (dynamic)	6.08 mg/l/96h (Pimephales promelas)

**· 12.2 Persistence and degradability** No further relevant information available.

**· Other information:** There are no data available about the preparation.

**· 12.3 Bioaccumulative potential** No further relevant information available.

**· 12.4 Mobility in soil** No further relevant information available.

**· 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 bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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- **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**  
Proceed according to local, official regulations.  
The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07 00	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 04*	other organic solvents, washing liquids and mother liquors

- **Uncleaned packagings:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN2056
- **14.2 UN proper shipping name**
- **ADR** 2056 TETRAHYDROFURAN,  
ENVIRONMENTALLY HAZARDOUS
- **IMDG** TETRAHYDROFURAN, MARINE POLLUTANT
- **IATA** TETRAHYDROFURAN
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 3 (F1) Flammable liquids.
- **Label** 3
- **IMDG**
- 
- **Class** 3 Flammable liquids.

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· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: naphthalene
· <b>Marine pollutant:</b>	Yes
· <b>Special marking (ADR):</b>	Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Kemler Number:</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 2056 TETRAHYDROFURAN, 3, II, 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  
P5c FLAMMABLE LIQUIDS
- **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
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning young persons must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **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**

H225 Highly flammable liquid and vapour.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:

DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,

phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – 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

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

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