

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

Printing date 25.01.2024

Version number 4.03 (replaces version 4.02)

Revision: 05.01.2024

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

· **1.1 Product identifier**

· **Trade name:** **PERADES 150**

· **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**

Disinfectant for food processing industries

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Tensio
Doornpark 36
9120 Beveren
Belgium
Tel.: +32 3 755 48 74
Fax.: +32 3 755 51 55
e-mail: info@tensio.be

· **Further information obtainable from:**

Product Safety Departement: SDS@tensio.be

· **1.4 Emergency telephone number:**

België / Belgique: Antigifcentrum / Centre Antipoison : +32 70 245 245
Nederland: Nationaal Vergiftigingen Informatie Centrum : +31 30 274 88 88
+44 700 393 7989

* **2 Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Org. Perox. F H242 Heating may cause a fire.
Met. Corr. 1 H290 May be corrosive to metals.
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 1 H410 Very 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.

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· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS09

· **Signal word**

Danger

· **Hazard statements**

H242

Heating may cause a fire.

H290

May be corrosive to metals.

H302+H312+H332 *Harmful if swallowed, in contact with skin or if inhaled.*

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

H410

Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210

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

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.*

P308+P311

IF exposed or concerned: Call a POISON CENTER/doctor.

· **Additional information:**

EUH071 Corrosive to the respiratory tract.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:**

Not applicable.

· **vPvB:**

Not applicable.

3 Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**

Mixture of substances listed below with nonhazardous additions.

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Dangerous components:

CAS: 7722-84-1 EINECS: 231-765-0 Reg.nr.: 01-2119485845-22-XXXX	hydrogen peroxide solution ⚠ Ox. Liq. 1, H271; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332 Specific concentration limits: Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; C ≥ 35 %	10–25%
CAS: 64-19-7 EINECS: 200-580-7	acetic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	10–25%
CAS: 79-21-0 EINECS: 201-186-8	peracetic acid ⚠ Flam. Liq. 3, H226; Org. Perox. D, H242; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	10–25%

Additional information:

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

4 First aid measures

4.1 Description of first aid measures
General information:

Personal protection for the First Aider.
 Do not leave affected persons unattended.
 Take affected persons out of danger area and lay down.
 Keep warm, position comfortably and cover well.
 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:

Supply fresh air.
 Seek medical treatment in case of complaints.
 Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
 In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:** *If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Protect unharmed eye.
Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Rinse out mouth and then drink plenty of water.
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.*
- **4.2 Most important symptoms and effects, both acute and delayed** *Unconsciousness
Coughing*
- **Hazards** *Danger of pulmonary oedema.*
- **4.3 Indication of any immediate medical attention and special treatment needed** *If swallowed or in case of vomiting, danger of entering the lungs.*

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.*
- **5.2 Special hazards arising from the substance or mixture** *In case of fire, the following can be released:
Oxygen (O2)*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear fully protective suit.
Mouth respiratory protective device.*
- **Additional information** *Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.*

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Keep away from ignition sources.
Keep people at a distance and stay on the windward side.
Wear protective clothing.
Wear protective equipment. Keep unprotected persons away.*

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· **6.2 Environmental precautions:**

*Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.*

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

*Dilute with plenty water.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.*

· **6.4 Reference to other sections**

*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

7 Handling and storage

· **7.1 Precautions for safe handling**

*Keep away from heat and direct sunlight.
Do not seal receptacles gas-tight.
Do not refill residue into storage receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.*

· **Information about fire - and explosion protection:**

No special measures required.

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

· **Storage:**

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

*Store only in the original receptacle.
Provide ventilation for receptacles.
Store in a cool location.*

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

*Store away from reducing agents.
Store away from metals.
Store away from flammable substances.*

· **Further information about storage conditions:**

*Store under lock and key and with access restricted to technical experts or their assistants only.
Keep container tightly sealed.*

· **7.3 Specific end use(s)**

No further relevant information available.

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8 Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 7722-84-1 hydrogen peroxide solution (10–25%)

WEL (Great Britain)	Short-term value: 2.8 mg/m ³ , 2 ppm Long-term value: 1.4 mg/m ³ , 1 ppm
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CAS: 64-19-7 acetic acid (10–25%)

IOELV (EU)	Short-term value: 50 mg/m ³ , 20 ppm Long-term value: 25 mg/m ³ , 10 ppm
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· **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:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present.
Short term filter device:
Filter ABEK-P3
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

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

· **Material of gloves**

Chloroprene rubber, CR
Recommended thickness of the material: ≥ 0.65 mm
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.

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· **Penetration time of glove material**

For the mixture of chemicals mentioned in header 3 the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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

· **For the permanent contact gloves made of the following materials are suitable:**

Chloroprene rubber, CR

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

· **Eye/face protection**

Face protection
Safety glasses



Tightly sealed goggles

· **Body protection:**

Use protective suit.
Boots
Acid resistant protective clothing

9 Physical and chemical properties

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

· **General Information**

- **Colour:** Transparent
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** -50 °C
- **Boiling point or initial boiling point and boiling range** >60 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 4 Vol %
- **Upper:** 17 Vol %
- **Flash point:** > 60 °C (ISO2719)
- **Auto-ignition temperature:** 485 °C (DIN 51 794)
- **Decomposition temperature (SADT):** > 60 °C
- **pH at 20 °C** -0.6 (medium : product as is)
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** Not determined.
- **Solubility**
- **water:** Fully miscible.

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- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density and/or relative density**
- **Density at 20 °C:** 1.15 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.

- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **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.
- **Solvent content:**
- **Organic solvents:** 17.5 %
- **Change in condition**
- **Evaporation rate** Not determined.

- **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** Heating may cause a fire.
- **Corrosive to metals** May be corrosive to metals.
- **Desensitised explosives** Void

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:** *To avoid thermal decomposition do not overheat.*
- **10.3 Possibility of hazardous reactions**
 - Reacts with reducing agents.*
 - Reacts with flammable substances.*
 - Reacts with certain metals.*
 - Reacts with light metals.*
 - Reacts with organic substances.*
 - Acts as an oxidising agent on organic materials such as wood, paper and fats.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *Oxygen*

11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Harmful if swallowed, in contact with skin or if inhaled.*

· LD/LC50 values relevant for classification:		
CAS: 7722-84-1 hydrogen peroxide solution		
Oral	LD50	1,190 mg/kg (rat)
Dermal	LD50	>6,500 mg/kg (rabbit)
Inhalative	LC50/ 4h	2 mg/l (rat)
CAS: 64-19-7 acetic acid		
Oral	LD50	3,310 mg/kg (rat)
Dermal	LD50	1,060 mg/kg (rabbit)
CAS: 79-21-0 peracetic acid		
Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/ 4h	11 mg/l (ATE)

Oral	LD50	1,190 mg/kg (rat)
Dermal	LD50	>6,500 mg/kg (rabbit)
Inhalative	LC50/ 4h	2 mg/l (rat)

Oral	LD50	3,310 mg/kg (rat)
Dermal	LD50	1,060 mg/kg (rabbit)

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/ 4h	11 mg/l (ATE)

- **Skin corrosion/irritation** *Causes severe skin burns and eye damage.*
- **Serious eye damage/irritation** *Causes severe skin burns and eye damage.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **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** *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.*

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

12 Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

CAS: 79-21-0 peracetic acid

LC50/ 96h 0.9–2 mg/l (Oncorhynchus mykiss)

EC50/ 48h 0.5–1 mg/l (Daphnia magna)

· **12.2 Persistence and degradability**

OECD 301 E:
Easily biodegradable

· **12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

log Pow: -0.52

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

The product may not be released into the aquatic environment without preliminary treatments (biological purification plant).

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

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

The surfactants ingredients of the product are biodegradable according to the requirements of regulation 648/2004/EC.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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13 Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

· **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

14 Transport information

· **14.2 UN proper shipping name**

· **ADR**

UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (peracetic acid), ENVIRONMENTALLY HAZARDOUS

· **IMDG, IATA**

ORGANIC PEROXIDE TYPE F, LIQUID (peracetic acid)

· **Class**

5.2 Organic peroxides.

· **Label**

5.2+8

· **Class**

5.2 Organic peroxides.

· **Label**

5.2/8

· **Class**

5.2 Organic peroxides.

· **Label**

5.2 (8)

· **ADR, IMDG, IATA**

I

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Organic peroxides.

· **Hazard identification number (Kemler code):** 539

· **EMS Number:**

F-J,S-R

· **Stowage Category**

D

· **Stowage Code**

SW1 Protected from sources of heat.

· **Segregation Code**

*SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG72 See 7.2.6.3.2.*

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

Not applicable.

· **Limited quantities (LQ)**

125 ml

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

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- **Limited quantities (LQ)** 125 ml
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **UN "Model Regulation":** UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (PERACETIC ACID), 5.2 (8), 1, ENVIRONMENTALLY HAZARDOUS

* 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**

GHS02 GHS05 GHS07 GHS09
- **Signal word** Danger
- **Hazard statements**

H242	Heating may cause a fire.
H290	May be corrosive to metals.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**

None of the ingredients is listed.

- **National regulations:**

- **Information about limitation of use:**

Class	Share in %
11	17.3

- **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

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**

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H271 May cause fire or explosion; strong oxidiser.
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

- **Contact:**

Wim Lampaert
MSc Chemistry

- **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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Ox. Liq. 1: Oxidizing liquids – Category 1

Org. Perox. D: Organic peroxides – Type C/D

Org. Perox. F: Organic peroxides – Type E/F

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

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

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

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