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

· **1.1 Product identifier**

· **Trade name: Hydrogen Peroxide Solution**

· **Product Code:** 50-3100-025

· **Registration number** Mixture
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Product category** PC21 Laboratory chemicals
· **Application of the substance / the mixture** Laboratory chemicals
· **Uses advised against**
Processes involving the use of incompatible substances - refer to section 10.
Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.
Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
Processes involving extreme heat use advised against.
The product is stictly intended for industrial or professional use only.

· **1.3 Details of the supplier of the safety data sheet**
· **Supplier:**
Severn Biotech Ltd.
Unit 2,
Park Lane,
Kidderminster,
Worcestershire.
DY11 6TJ
UK
Tel: 0044 1562 825286
Fax: 0044 1562 825284
email: info@severnbiotech.com

· **Further information obtainable from:** Product safety department.
· **1.4 Emergency telephone number:**
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to GB-CLP**

Ox. Liq. 3	H272 May intensify fire; oxidiser.
Acute Tox. 4	H302 Harmful if swallowed.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**
· **Labelling according to GB-CLP** The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**

GHS03 GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Hydrogen peroxide
· **Hazard statements**
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**

P220	Keep away from clothing and other combustible materials.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

· **Additional information:**
Product contains: Regulated explosives precursors. Acquisition, possession or use by the general public is restricted.
Contains biocidal active substance(s): Hydrogen peroxide
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Aqueous solution of the subtance(s) listed below.

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· **Dangerous components:**

CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg.nr.: 01-2119485845-22-XXXX	Hydrogen peroxide Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Note: B Specific concentration limits: 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; H335: C ≥ 35 % Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Ox. Liq. 3; H272: 20 % ≤ C < 50 %	35 – < 50%

· **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.
· **After inhalation:**
Supply fresh air.
Seek immediate medical advice.
· **After skin contact:**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
Notify emergency physician immediately (key words: burns in eye).
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
· **Information for doctor:** Refer to section 11.
· **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:** Water
· **For safety reasons unsuitable extinguishing agents:** Use only water!
· **5.2 Special hazards arising from the substance or mixture**
Risk of explosion on heating.
Peroxides will decompose, releasing oxygen.

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· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
· **Additional information**
Cool endangered receptacles with water spray.
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
Wear protective equipment. Keep unprotected persons away.
Consult an expert in the event of a large spillage.
Keep ignition sources away - no smoking.
· **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course in the undiluted form.
· **6.3 Methods and material for containment and cleaning up:**
Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Do not use combustible materials such as paper towels to clean up spills.
Significant release:
Pump into a clean labelled emergency container. After cleaning, flush away traces with water. Recover water for later processing.
Wash the area with plenty of 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 disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Conduct maintenance and other work on or in storage/reactor/mixing vessels or closed spaces ONLY under strict Permit to Work conditions.
Rinse contaminated clothing with plenty of water (Fire hazard)
Safety showers and eye wash facilities should be available at the work area.
· **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:**
Prevent any seepage into the ground.
Store only in the original receptacle.

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Do not store on combustible materials such as wooden floors or wooden pallets.
· **Information about storage in one common storage facility:**
Store away from reducing agents.
Store away from oxidising agents.
Store away from foodstuffs.
Do not store together with textiles.
Store away from flammable substances.
· **Further information about storage conditions:**
Store in a bunded area.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Maximum storage temperature: 15 °C
Protect from frost.
· **Storage class:** 5.1 B
· **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: 7722-84-1 Hydrogen peroxide	
WEL	Short-term value: 2.8 mg/m³, 2 ppm Long-term value: 1.4 mg/m³, 1 ppm

· **DNELs**		
CAS: 7722-84-1 Hydrogen peroxide		
Inhalative	Long-term local effects	0.21 mg/m³ (general population)
		1.4 mg/m³ (worker)
	Short-term local effects	1.93 mg/m³ (general population)
		3 mg/m³ (worker)

· **PNECs**	
CAS: 7722-84-1 Hydrogen peroxide	
Freshwater	12.6 µg/L
Freshwater - Intermittent releases	13.8 µg/L
Marine water	12.6 µg/L
Sewage Treatment Plant	4.66 mg/L
Sediment (freshwater)	47 µg/kg
Sediment (marine water)	47 µg/kg
Soil	2.3 µg/kg

· **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:**
Take note of assigned Workplace Exposure Limits.
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.

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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.
Ensure that eyewash stations and safety showers are close to the workstation location.
Contaminated clothes are a fire hazard. Rinse with plenty of water.

· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Filter NO-P3

· **Hand protection**

Protective gloves.
Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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**
Butyl rubber, BR
Natural rubber, NR
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.

· **Penetration time of glove material**
Break-through time: >480 minutes
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 conforming to EN166.

· **Body protection:**

Impervious protective clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

· **Environmental exposure controls** Do not let product enter drains. Risk of explosion.

· **Risk management measures**
The operators shall be instructed adequately.
The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Liquid
· **Colour:**	Colourless
· **Odour:**	Mild
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	-33 °C
· **Boiling point or initial boiling point and boiling range**	108 °C
· **Flash point:**	Not applicable.
· **pH at 20 °C**	2
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **Dynamic at 20 °C:**	1.17 mPas
· **Solubility**	
· **water:**	Fully miscible.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure at 30 °C:**	1 hPa
· **Density and/or relative density**	
· **Density at 20 °C:**	1.1 – 1.2 g/cm³
· **9.2 Other information**	NOTE: The physical data presented above are typical values and should not be construed as a specification.
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Product is not self-igniting.
· **Explosive properties:**	Explosive when mixed with combustible material.
· **Solvent content:**	
· **VOC (EC)**	0.00 %
· **Information with regard to physical hazard classes**	
· **Explosives**	Not applicable
· **Flammable gases**	Not applicable
· **Aerosols**	Not applicable
· **Oxidising gases**	Not applicable
· **Gases under pressure**	Not applicable
· **Flammable liquids**	Not applicable
· **Flammable solids**	Not applicable
· **Self-reactive substances and mixtures**	Not applicable
· **Pyrophoric liquids**	Not applicable
· **Pyrophoric solids**	Not applicable
· **Self-heating substances and mixtures**	Not applicable
· **Substances and mixtures, which emit flammable gases in contact with water**	Not applicable
· **Oxidising liquids**	May intensify fire; oxidiser.
· **Oxidising solids**	Not applicable
· **Organic peroxides**	Not applicable
· **Corrosive to metals**	Not applicable

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· **Desensitised explosives**	Not applicable

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
Decomposes on warming or under influence of light, producing oxygen.
Oxygen released during thermal decomposition may support combustion.
· **10.3 Possibility of hazardous reactions**
Danger of receptacles bursting because of high vapour pressure when heated.
Reacts violently with many substances.
Many reactions may cause fire or explosion.
· **10.4 Conditions to avoid** Heat and static discharge.
· **10.5 Incompatible materials:**
Combustible materials.
Strong oxidising agents.
Strong bases.
Finely powdered metals.
Alkalis
Metals
Metal salts
Flammable materials
Reducing agents
Organic solvents.
Impurities (risk of decomposition).
· **10.6 Hazardous decomposition products:** Oxygen

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity**
Harmful if swallowed.

· **LD/LC50 values relevant for classification:**		
ATE (Acute Toxicity Estimates)		
Oral	LD50	1,231.4 mg/kg (rat)
Inhalative	LC50/4 h	31.429 mg/l

CAS: 7722-84-1 Hydrogen peroxide		
Oral	LD50	431 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious 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.

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· **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.
· **Subacute to chronic toxicity:**
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the respiratory tract and lungs, resulting in chronic bronchitis.
· **Additional toxicological information:**
ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion.
INHALATION RISK: A harmful contamination of the air will be reached very quickly on evaporation of this substance at 20°C.
Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.
Ingestion may produce oxygen bubbles (embolism) in the blood, resulting in shock.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**
None of the ingredients are listed.

* SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
CAS: 7722-84-1 Hydrogen peroxide	
EC50 (96 h)	16.4 mg/l (Fish)
EC50 (72 h)	1.38 mg/l (Algae)
LC50 (48h) Acute	2.4 mg/L (Daphnia)

· **12.2 Persistence and degradability** Inorganic substance: not applicable
· **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
· **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** The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

* SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Recommended Hierarchy of Controls:
- Minimise waste;

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- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**
· **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Container remains hazardous when empty. Continue to observe all precautions.
Containers, even those that are "empty," may contain residues that can develop hazardous gases and vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.
Disposal must be made according to official regulations.
Do not mix with other waste streams.
· **Recommended cleansing agents:** Large quantities of water

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR/RID/ADN, IMDG, IATA**	UN2014
· **14.2 UN proper shipping name**	
· **ADR/RID/ADN**	UN2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION
· **IMDG, IATA**	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
· **14.3 Transport hazard class(es)**	
· **ADR/RID/ADN**	
· **Class**	5.1 (OC1) Oxidising substances.
· **Label**	5.1+8
· **IMDG**	
· **Class**	5.1 Oxidising substances.
· **Label**	5.1/8
· **IATA**	
· **Class**	5.1 Oxidising substances.
· **Label**	Forbidden

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· **14.4 Packing group**	
· **ADR/RID/ADN, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Oxidising substances.
· **Hazard identification number (Kemler code):**	58
· **Hazchem Code:**	2P
· **EMS Number:**	F-H,S-Q
· **Segregation groups**	(SGG16) Peroxides
· **Stowage Category**	D
· **Stowage Code**	SW1 Protected from sources of heat.
· **Segregation Code**	SG16 Stow "separated from" class 4.1 SG59 Stow "separated from" SGG14-permanganates SG72 See 7.2.6.3.2.
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR/RID/ADN**	
· **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**	2
· **Tunnel restriction code**	E
· **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 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

SECTION 15: Regulatory information

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

· **Regulated explosives precursors**

CAS: 7722-84-1	Hydrogen peroxide	12%

· **Regulated poisons**

None of the ingredients are listed.

· **Reportable explosives precursors**

None of the ingredients are listed.

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· **Reportable poisons**

None of the ingredients are listed.

· **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
· **Named dangerous substances - ANNEX I** None of the ingredients are listed.
· **COMAH category** P8
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
· **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.

· **Relevant phrases**
H271 May cause fire or explosion; strong oxidiser.
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
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.
H412 Harmful to aquatic life with long lasting effects.
· **Training hints**
This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· **Department issuing SDS:** Product safety department.
· **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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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
Ox. Liq. 1: Oxidizing liquids – Category 1
Ox. Liq. 3: Oxidizing liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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