

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

Printing date 13.11.2023

Version number 5

Revision: 09.11.2023

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

· **1.1 Product identifier**

· **Trade name:** Non Chlorine Shock

· **Article number:** NCS

· **Registration number** Mixture

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

· **Product category** PC37 Water treatment chemicals

· **Application of the substance / the mixture** Disinfectant

· **Uses advised against**

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving significant release of dust, vapour or mist in the breathing zone of workers where they are exposed without suitable respiratory protective equipment (RPE).

Processes involving the use of incompatible substances - refer to section 10.

Processes involving extreme heat use advised against.

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

· **Manufacturer/Supplier:**

Complete Pool Controls Ltd
 Unit 2, The Park
 Stoke Orchard
 Bishops Cleeve
 Gloucestershire
 GL52 7RS
 UK

Tel: +44 (0)1242 662700 (office hours)

email: sales@cpc-chemicals.co.uk

· **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 Regulation (EC) No 1272/2008**



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

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Acute Tox. 4 H302 Harmful if swallowed.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Additional information:**

EUH208 Contains DIPOTASSIUM PEROXODISULPHATE. May produce an allergic reaction.

· **2.2 Label elements**

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

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms** GHS05, GHS07, GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Potassium peroxomonosulphate

Dipotassium peroxodisulphate

dipotassium disulphate

potassium hydrogensulphate

· **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

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

· **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 of substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 70693-62-8 EINECS: 274-778-7 Reg.nr.: 01-2119485567-22-XXXX	Potassium peroxomonosulphate ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	50 – 100%
CAS: 7646-93-7 EINECS: 231-594-1 Reg.nr.: 01-2120764174-54-XXXX	potassium hydrogensulphate ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	2.5 – < 5%
CAS: 7790-62-7 EINECS: 232-216-8 Reg.nr.: 01-2119987095-26-XXXX	dipotassium disulphate ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318	3 – < 5%
CAS: 7727-21-1 EINECS: 231-781-8 Reg.nr.: 01-2119495676-19-XXXX	Dipotassium peroxodisulphate ⚠ Ox. Sol. 3, H272; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: Skin Sens. 1; H317: C ≥ 5 %	2.5 – < 5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

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

· **After inhalation:**

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.

· **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.

· **After swallowing:**

Wash mouth out with water

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

· **Information for doctor:** Treat symptomatically and supportively.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **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 spray
 Fire-extinguishing powder
 Foam
 Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**
 Carbon dioxide
 Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 Corrosive.
 In case of fire, the following can be released:
 Sulphur Oxides (SO_x)
 Toxic metal oxide smoke
- **5.3 Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 Do not inhale explosion gases or combustion gases.
 Wear fully protective suit.
- **Additional information** Soluble in water.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 Ensure adequate ventilation
 Avoid formation of dust.
 Use respiratory protective device against the effects of fumes/dust/aerosol.
 Wear protective equipment. Keep unprotected persons away.
- **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.
 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.
 Send for recovery or disposal in suitable receptacles.
 Use neutralising agent.
 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.

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See Section 13 for disposal information.

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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.

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Safety showers and eye wash facilities should be available at the work area.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Do not store in aluminium or galvanised containers.

· Information about storage in one common storage facility: Store away from reducing agents.

· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

· Storage class: 8 A

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about design of technical facilities: No further data; see section 7.

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

70693-62-8 Potassium peroxomonosulphate

Oral	DNEL Long-term systemic effects	1 mg/kg bw/day (general population)
	DNEL Short-term systemic effects	3 mg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	2 mg/kg bw/day (general population)
		4 mg/kg bw/day (worker)
Inhalative	DNEL Long-term local effects	56 µg/m³ (general population)
		112 µg/m³ (worker)

7790-62-7 dipotassium disulphate

Inhalative	DNEL Long-term systemic effects	65 µg/m³ (general population)
		130 µg/m³ (worker)
	DNEL Short-term systemic effects	130 µg/m³ (general population)
		260 µg/m³ (worker)
	DNEL Long-term local effects	65 µg/m³ (general population)

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	DNEL Short-term local effects	130 µg/m ³ (worker) 130 µg/m ³ (general population) 260 µg/m ³ (worker)
7727-21-1 Dipotassium peroxodisulphate		
Oral	DNEL Short-term systemic effects	1.37 mg/kg bw/day (general population)
	DNEL Long-term systemic effects	460 µg/kg bw/day (general population)
Dermal	DNEL Long-term systemic effects	4.6 mg/kg bw/day (general population) 12.7 mg/kg bw/day (worker)
Inhalative	DNEL Long-term local effects	421 µg/m ³ (general population) 824 µg/m ³ (worker)

· **PNECs**

70693-62-8 Potassium peroxomonosulphate

PNEC Freshwater	22.2 µg/L
PNEC Freshwater - Intermittent releases	10 µg/L
PNEC Marine water	2.22 µg/L
PNEC Marine Water - Intermittent releases	5.56 µg/L
PNEC Sewage Treatment Plant	1 mg/L
PNEC Sediment (freshwater)	79.92 µg/kg
PNEC Sediment (marine water)	7.992 µg/kg
PNEC Soil	2.996 µg/kg

7790-62-7 dipotassium disulphate

PNEC Freshwater	680 µg/L
PNEC Freshwater - Intermittent releases	6.8 mg/L
PNEC Marine water	68 µg/L
PNEC Sewage Treatment Plant	800 mg/L
PNEC Sediment (freshwater)	2.5 mg/kg
PNEC Sediment (marine water)	250 µg/kg
PNEC Soil	92 µg/kg

7727-21-1 Dipotassium peroxodisulphate

PNEC Freshwater	518 µg/L
PNEC Freshwater - Intermittent releases	763 µg/L
PNEC Marine water	51.8 µg/L
PNEC Sewage Treatment Plant	3.6 mg/L
PNEC Sediment (freshwater)	2.03 mg/kg
PNEC Sediment (marine water)	203 µg/kg
PNEC Soil	100 µg/kg

· **Additional information:** The lists valid during the making were used as basis.

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· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

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

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

· **Protection of hands:**



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**

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**

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

· **Eye protection:**



Tightly sealed goggles conforming to EN166.

· **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

GB

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid
Colour: According to product specification

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value at 20 °C: 2 – 3 (1%)

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gas): Not determined.

· Decomposition temperature: >50 °C

· Ignition temperature: Product is not self-igniting.

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

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not applicable.

· Density at 20 °C: 1.1 g/cm³

· Relative density Not determined.

· Vapour density Not applicable.

· Evaporation rate Not applicable.

· Solubility in / Miscibility with water:

Soluble.

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

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

· 9.2 Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
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:**
Finely powdered metals.
Strong bases.
Strong acids.
Cyanides
Metal salts
Halogenated hydrocarbons
- **10.6 Hazardous decomposition products:**
Sulphur oxides (SOx)
Metal oxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	1,301.6 mg/kg (rat)
Inhalative	LC50/4 h	66.667 mg/l

70693-62-8 Potassium peroxomonosulphate

Oral	LD50	1,204 mg/kg (rat)
Dermal	LD50	> 11,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 14 mg/l (rat)

7646-93-7 potassium hydrogensulphate

Oral	LD50	2,340 mg/kg (rat)
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7727-21-1 Dipotassium peroxodisulphate

Oral	LD50	802 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 42.9 mg/l (rat)

- **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**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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· **Additional toxicological information:**

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.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

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

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

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

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

70693-62-8 Potassium peroxomonosulphate

EC50 (96 h)	3.5 mg/l (Bacteria)
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7727-21-1 Dipotassium peroxodisulphate

EC50 (96 h)	133 mg/l (Bacteria)
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· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.

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

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **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.

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

Harmful to aquatic organisms

· **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**

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:**

Container remains hazardous when empty. Continue to observe all precautions.

Do not mix with other waste streams.

Disposal must be made according to official regulations.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR/RID/ADN, IMDG, IATA**

UN3260

· **14.2 UN proper shipping name**

· **ADR/RID/ADN**

UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxomonosulphate, POTASSIUM HYDROGEN SULPHATE)

· **IMDG, IATA**

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxomonosulphate, POTASSIUM HYDROGEN SULPHATE)

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN, IMDG, IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Corrosive substances.

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

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG1) Acids

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· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (POTASSIUM PEROXOMONOSULPHATE, POTASSIUM HYDROGEN SULPHATE), 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**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **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.

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· **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)

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

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

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

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

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

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