

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

### 1.1 Product identifier

#### Trade name:

Article number: CG-Ver.5

#### CAS Number:

51580-86-0

#### EC number:

610-700-3

#### 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 For disinfection of hot tub water

#### Uses advised against

Any use involving aerosol formation or vapour release in excess of the assigned WEL where workers are exposed without suitable RPE.

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.

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

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

Total Water Products

Unit 6 Seaway Parade Ind. Estate

Baglan

Port Talbot

SA12 7BR

Tel: 0044 1639 823233

e-mail: info@totalwaterproducts.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



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Acute Tox. 4

H302 Harmful if swallowed.

Eye Irrit. 2

H319 Causes serious eye irritation.

STOT SE 3

H335 May cause respiratory irritation.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms** GHS07, GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Troclosene sodium, dihydrate
- **Hazard statements**  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P261 Avoid breathing dust.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
EUH031 Contact with acids liberates toxic gas.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**  
51580-86-0 Troclosene sodium, dihydrate  
Alternative CAS number: 2893-78-9
- **Identification number(s)**
- **EC number:** 610-700-3

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
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; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
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. If symptoms persist, consult a doctor.
- **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 airway clear. Drink more water when vomiting stops. Seek medical attention immediately
- **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.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Alcohol resistant foam  
Carbon dioxide  
Water spray  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**  
ABC powder  
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride (HCl)  
Product is not classified as oxidizing. However, it enhances combustion of other substances.
- **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**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### 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.
- **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.  
Do not use combustible materials such as paper towels to clean up spills.  
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.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid contact with clothing and other combustible materials.  
Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.  
Do not mix with acids.  
Safety showers and eye wash facilities should be available at the work area.  
Keep away from heat and direct sunlight.  
Rinse contaminated clothing with plenty of water (Fire hazard)

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Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Do not mix with acids.

· **Handling:**

Do not mix with other products.  
Prevent formation of dust.

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

Can decompose explosively when heated.  
Substance/product can reduce the ignition temperature of flammable substances.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

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

Store away from flammable substances.  
Store away from reducing agents.  
Store away from foodstuffs.  
Store away from oxidising agents.  
Do not store together with acids.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

· **Storage class:** 11

· **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**

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

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

**51580-86-0 Troclosen sodium, dihydrate**

|     |                                                                                                     |
|-----|-----------------------------------------------------------------------------------------------------|
| WEL | Short-term value: 0.07 mg/m <sup>3</sup><br>Long-term value: 0.02 mg/m <sup>3</sup><br>Sen; as -NCO |
|-----|-----------------------------------------------------------------------------------------------------|

· **DNELs**

**51580-86-0 Troclosen sodium, dihydrate**

|            |                                 |                                             |
|------------|---------------------------------|---------------------------------------------|
| Oral       | DNEL Long-term systemic effects | 1.15 mg/kg bw/day (general population)      |
| Dermal     | DNEL Long-term systemic effects | 1.15 mg/kg bw/day (general population)      |
|            |                                 | 2.3 mg/kg bw/day (worker)                   |
| Inhalative | DNEL Long-term systemic effects | 1.99 mg/m <sup>3</sup> (general population) |
|            |                                 | 8.11 mg/m <sup>3</sup> (worker)             |

· **PNECs**

**51580-86-0 Troclosen sodium, dihydrate**

|                                         |            |
|-----------------------------------------|------------|
| PNEC Freshwater                         | 170 ng/L   |
| PNEC Freshwater - Intermittent releases | 1.7 µg/L   |
| PNEC Marine water                       | 1.52 mg/L  |
| PNEC Sewage Treatment Plant             | 590 µg/L   |
| PNEC Sediment (freshwater)              | 7.56 mg/kg |
| PNEC Soil                               | 756 µg/kg  |

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

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

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Do not breathe dust

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Take note of assigned Workplace Exposure Limits.

Depending on the degree of exposure, periodic medical examination is suggested.

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

Contaminated clothes are a fire hazard. Rinse with plenty of water.

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.

· **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:**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· **Body protection:**



Protective work clothing

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

## SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:** Granulate

**Colour:** White

· **Odour:** Like chlorine

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 6(1%)

· **Change in condition**

**Melting point/freezing point:** 250 °C

**Initial boiling point and boiling range:** Undetermined.

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|                                                           |                                                                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>Flash point:</b>                                     | Not applicable.                                                                                                                                           |
| · <b>Flammability (solid, gas):</b>                       | Product is not flammable.                                                                                                                                 |
| · <b>Auto-ignition temperature:</b>                       | 250 °C                                                                                                                                                    |
| · <b>Decomposition temperature:</b>                       | Not determined.                                                                                                                                           |
| · <b>Ignition temperature:</b>                            | Not determined.                                                                                                                                           |
| · <b>Explosive properties:</b>                            | Product does not present an explosion hazard.                                                                                                             |
| · <b>Explosion limits:</b>                                |                                                                                                                                                           |
| <b>Lower:</b>                                             | Not determined.                                                                                                                                           |
| <b>Upper:</b>                                             | Not determined.                                                                                                                                           |
| · <b>Vapour pressure:</b>                                 | Not applicable.                                                                                                                                           |
| · <b>Density at 20 °C:</b>                                | 1 g/cm <sup>3</sup>                                                                                                                                       |
| · <b>Bulk density:</b>                                    | 1,000 kg/m <sup>3</sup>                                                                                                                                   |
| · <b>Relative density</b>                                 | Not determined.                                                                                                                                           |
| · <b>Vapour density</b>                                   | Not applicable.                                                                                                                                           |
| · <b>Evaporation rate</b>                                 | Not applicable.                                                                                                                                           |
| · <b>Solubility in / Miscibility with water at 25 °C:</b> | 250 g/l                                                                                                                                                   |
| · <b>Partition coefficient: n-octanol/water:</b>          | Not determined.                                                                                                                                           |
| · <b>Viscosity:</b>                                       |                                                                                                                                                           |
| <b>Dynamic:</b>                                           | Not applicable.                                                                                                                                           |
| <b>Kinematic:</b>                                         | Not applicable.                                                                                                                                           |
| · <b>9.2 Other information</b>                            | NOTE: The physical data presented above are typical values and should not be construed as a specification.<br>*Hydrolyses rapidly upon addition to water. |

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### 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 heating, producing toxic fumes.
- **10.3 Possibility of hazardous reactions**
  - Reacts with acids releasing chlorine.
  - Reacts violently with many substances.
  - Reacts violently with combustible and reducing materials, causing fire and explosion hazard.
  - Reacts with water.
- **10.4 Conditions to avoid**
  - Do not mix with other chemical formulations in their concentrated form.
  - Heat and static discharge.
- **10.5 Incompatible materials:**
  - Strong acids and oxidising agents
  - Reducing agents.
  - Strong bases.
  - Ammonia
  - Combustible materials.
  - Substances specifically listed in section 10.3 as incompatible.
- **10.6 Hazardous decomposition products:**
  - Hydrogen cyanide (prussic acid)
  - Chlorine
  - Hydrogen chloride (HCl)
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides (NO<sub>x</sub>)

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Chlorine compounds

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### 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 | 1,501.5 mg/kg (rat) |
|------|------|---------------------|

##### 51580-86-0 Troclosene sodium, dihydrate

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 1,500 mg/kg (rat) |
|------|------|-------------------|

|        |      |                        |
|--------|------|------------------------|
| Dermal | LD50 | > 5,000 mg/kg (rabbit) |
|--------|------|------------------------|

##### Primary irritant effect:

• **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation

Causes serious eye irritation.

• **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

• **Subacute to chronic toxicity:** Prolonged or repeated skin contact may irritate and cause dermatitis.

##### Additional toxicological information:

ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion.

INHALATION RISK: A harmful concentration of airborne particles can be reached quickly especially if powdered.

##### Acute effects (acute toxicity, irritation and corrosivity)

EFFECTS OF SHORT-TERM EXPOSURE: The substance irritates the eyes, the skin and the respiratory tract. Corrosive on ingestion.

##### CMR effects (carcinogenicity, 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

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:** No further relevant information available.

#### 12.2 Persistence and degradability

This product is unstable in water. The information concerning the elimination, also refers to the hydrolysis products.

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

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

##### Ecotoxicological effects:

• **Remark:** Very toxic for fish

##### Additional ecological information:

##### General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

#### 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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- **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;
- 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.

This product is a registered pesticide.

Dispose in accordance with all applicable regulations.

Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.

DO NOT transport wet or damp material. Damp material should be neutralized to a safe state.

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**

UN3077

· **14.2 UN proper shipping name**

· **ADR/RID/ADN**

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)

· **IMDG**

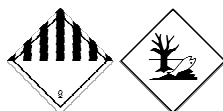
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium, dihydrate)

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN, IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

Symbol (fish and tree)

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|                                                                                  |                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>Special marking (ADR/RID/ADN):</b>                                          | Symbol (fish and tree)                                                                                                                                                      |
| · <b>Special marking (IATA):</b>                                                 | Symbol (fish and tree)                                                                                                                                                      |
| · <b>14.6 Special precautions for user</b>                                       | Warning: Miscellaneous dangerous substances and articles.                                                                                                                   |
| · <b>Hazard identification number (Kemler code):</b>                             | 90                                                                                                                                                                          |
| · <b>EMS Number:</b>                                                             | F-A,S-F                                                                                                                                                                     |
| · <b>Stowage Category</b>                                                        | A                                                                                                                                                                           |
| · <b>Stowage Code</b>                                                            | SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.                                                                                                      |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                                                                                                                                             |
| · <b>Transport/Additional information:</b>                                       | Amounts up to 5kg or 5L per single or inner package are not regulated according to ADR/RID SP 375, IMDG 2.10.2.7 and IATA SP A197.<br>DO NOT transport wet or damp product. |
| · <b>ADR/RID/ADN</b>                                                             |                                                                                                                                                                             |
| · <b>Limited quantities (LQ)</b>                                                 | 5 kg                                                                                                                                                                        |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g                                                              |
| · <b>Transport category</b>                                                      | 3                                                                                                                                                                           |
| · <b>Tunnel restriction code</b>                                                 | (-)                                                                                                                                                                         |
| · <b>IMDG</b>                                                                    |                                                                                                                                                                             |
| · <b>Limited quantities (LQ)</b>                                                 | 5 kg                                                                                                                                                                        |
| · <b>Excepted quantities (EQ)</b>                                                | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g                                                              |
| · <b>UN "Model Regulation":</b>                                                  | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TROCLOSENE SODIUM, DIHYDRATE), 9, III                                                                           |

### SECTION 15: Regulatory information

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

#### · **Regulated explosives precursors**

Substance is not listed.

#### · **Regulated poisons**

Substance is not listed.

#### · **Reportable explosives precursors**

Substance is not listed.

#### · **Reportable poisons**

Substance is not listed.

#### · **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category** E1
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 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.

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### 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.

· **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

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

Acute Tox. 4: Acute toxicity – Category 4

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

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

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