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Conforms to EU Regulation 1907/2006/EC as amended.

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

**1.1 Product identifier**

Trade name : HTH GREEN TO BLUE SHOCK

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

Use of the Substance/Mixture : Biocide

<p><b>1.3 Details of the supplier of the safety data sheet</b>          Innovative Water Care SA Holding (Pty) Ltd          NCP Factory Site, 9 Hytor Street, Chloorkop          1624 Kempton Park          South Africa</p> <p><b>E-mail address of person responsible for the SDS:</b>          EHSPProductSafetyTeam@solenis.com</p> <p><b>Product Information</b>          Contact your local Solenis representative</p>	<p><b>1.4 Emergency telephone number</b>          Europe: NCEC +44 (0)1235 239 670, Africa, and Middle East: NCEC +44 (0)1235 239 671 , or contact your local emergency telephone number at 112</p>
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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**


**Classification (REGULATION (EC) No 1272/2008)**

Serious eye damage, Category 1                      H318: Causes serious eye damage.


Long-term (chronic) aquatic hazard, Category 3                      H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

**Classification (REGULATION (EC) No 1272/2008)**

Hazard pictograms : 

Signal word : Danger

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- Hazard statements : H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.
- Prevention:**  
P280 Wear eye protection/ face protection.
- Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
hydrogen peroxide

### 2.3 Other hazards


This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
Material can create slippery conditions.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22-xxxx	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412	>= 10 - < 15
Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer)	25988-97-0	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5

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For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures


- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Lung irritation  
bronchitis  
Headache  
Dizziness  
lung edema (fluid buildup in the lung tissue)  
seizures  
Convulsions
- Risks : Causes serious eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : acetic acid

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Material can create slippery conditions.  
 Water may cause extremely slippery conditions.  
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

---


## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Material can create slippery conditions.  
 Use personal protective equipment.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform

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respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : For small spills, quickly contain and remove the spilled material using absorbent pads, socks, kitty litter, sawdust etc, then appropriately dispose. Do not leave absorbents to sit overnight, as they will become hard and difficult to remove. The remaining residue or film can be treated with dilute caustic (2%) or dilute liquid bleach (2–5%), allowed to soak for up to one hour, and clean with warm water (between 49C – 54C (120F – 130 F)) or flushed to a sewer using high volumes of water taking into account local guidelines. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid spillage on floor as the product can become very slippery.  
Do not breathe vapours/dust.  
Container hazardous when empty.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.


### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
hydrogen peroxide	7722-84-1	OEL-RL	2 ppm	ZA OEL
Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

## SECTION 9: Physical and chemical properties


### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : transparent

Odour : characteristic

Odour Threshold : No data available

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pH : ca. 2,7

Melting point/freezing point : No data available

Boiling point/boiling range : 150 °C

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 23 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1,04 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity


Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated temperatures.  
Contact may result in corrosion and product degradation.

### 10.5 Incompatible materials

Materials to avoid : aluminum  
Combustible material  
Copper  
Cyanides  
Iron  
Metals  
metal salts  
Organic materials  
Reducing agents  
strong mineral acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Hydrogen chloride gas  
Nitrogen oxides (NO<sub>x</sub>)

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects


#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Remarks: Hydrogen peroxide ingestion can cause irritation of the gastrointestinal system with possible abdominal pain, nausea, vomiting and diarrhea. Large ingestions can cause rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage (bleeding, ulceration or



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perforation).

**Components:**

**hydrogen peroxide:**

Acute oral toxicity : LD50 (Rat, male): 1.026 mg/kg

LD50 (Rat, female): 694 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - < 5 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
 Remarks: No mortality observed at this dose.

Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Acute oral toxicity : LD50 (Rat, male): 1.247 mg/kg  
 Method: OECD Test Guideline 401

LD50 (Rat, female): 1.003 mg/kg  
 Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests., The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.


**Components:**

**hydrogen peroxide:**

Species : Rabbit  
 Result : Corrosive after 3 minutes or less of exposure

Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : No skin irritation

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### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks : May cause irreversible eye damage.  
Eye effects may be delayed.

#### Components:

##### hydrogen peroxide:

Result : Corrosive to eyes

Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Test Type : (mod. Buehler test): modified Buehler test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### hydrogen peroxide:


Genotoxicity in vitro : Test Type: Ames test  
Result: Positive results were obtained in some in vitro tests.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

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**STOT - single exposure**

Not classified based on available information.

**Components:**

**hydrogen peroxide:**

Target Organs : Respiratory Tract  
 Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

**hydrogen peroxide:**


Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16,4 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 2,4 mg/l  
 Exposure time: 48 h  
 Test Type: semi-static test

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (diatom)): 1,38 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

NOEC (Skeletonema costatum (diatom)): 0,63 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,63 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: flow-through test

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Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,077 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,084 mg/l  
 Exposure time: 48 h  
 Test Type: semi-static test  
 Method: Tested according to Directive 92/69/EEC.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0,13 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,024 mg/l  
 Exposure time: 28 d  
 Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,026 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

## 12.2 Persistence and degradability

### Components:

#### hydrogen peroxide:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.


Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Biodegradability : Result: Not readily biodegradable.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

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**Components:**

Polymer of N-Methylmethanamine (EINECS 204-697-4 with (chloromethyl) oxirane (EINECS 203-439-8)/Polymeric quaternary ammonium chloride (PQ Polymer):

Partition coefficient: n-octanol/water : log Pow: -3,13 (21 °C)

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Other adverse effects**

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**


**13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
  
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

ADR: UN3139

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**ADN:** UN3139

**RID:** UN3139

**IMDG-Code:** UN3139

**IATA-DGR:** UN3139

#### 14.2 UN proper shipping name

**ADR:** OXIDIZING LIQUID, N.O.S. (HYDROGEN PEROXIDE, POLYMERISED QUATERNARY AMMONIUM COMPOUND)

**ADN:** OXIDIZING LIQUID, N.O.S. (HYDROGEN PEROXIDE, POLYMERISED QUATERNARY AMMONIUM COMPOUND)

**RID:** OXIDIZING LIQUID, N.O.S. (HYDROGEN PEROXIDE, POLYMERISED QUATERNARY AMMONIUM COMPOUND)

**IMDG-Code:** OXIDIZING LIQUID, N.O.S. (HYDROGEN PEROXIDE, POLYMERISED QUATERNARY AMMONIUM COMPOUND)

**IATA-DGR:** Oxidizing liquid, n.o.s. (HYDROGEN PEROXIDE, POLYMERISED QUATERNARY AMMONIUM COMPOUND)

#### 14.3 Transport hazard class(es)

**ADR:** 5.1

**ADN:** 5.1

**RID:** 5.1

**IMDG-Code:** 5.1

**IATA-DGR:** 5.1

#### 14.4 Packing group

**ADR:** III

**ADN:** III

**RID:** III

**IMDG-Code:** III

**IATA-DGR:** III

#### 14.5 Environmental hazards

**ADR:** Not applicable

**ADN:** Not applicable


**RID:** Not applicable

**IMDG-Code:** Not applicable

**IATA-DGR:** Not applicable

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- |   |   |   |
|---|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)              | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3 |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).   | : | Not applicable  |
| REACH - List of substances subject to authorisation (Annex XIV)   | : | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | : | Not applicable  |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast)   | : | Not applicable  |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                          | : | Not applicable  |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | : | Not applicable  |

**The components of this product are reported in the following inventories:**

- |      |   |   |
|------|---|---|
| TCSI | : | On the inventory, or in compliance with the inventory |
| TSCA | : | Exempt  |
| AIRC | : | On the inventory, or in compliance with the inventory |
| DSL  | : | Exempt  |
| ENCS | : | Not in compliance with the inventory                  |

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KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

## 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Further information

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### Classification of the mixture:

Eye Dam. 1 H318  
Aquatic Chronic 3 H412

### Classification procedure:

Calculation method  
Calculation method

### Full text of H-Statements


H271 : May cause fire or explosion; strong oxidizer.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Ox. Liq. : Oxidizing liquids  
Skin Corr. : Skin corrosion  
STOT SE : Specific target organ toxicity - single exposure  
ZA OEL : South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits  
ZA OEL / OEL-RL : Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AICC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System;



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HTH GREEN TO BLUE SHOCK  250887	Version: 1.0

GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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