

# Safety Data Sheet (SDS) HTH® Shock It® 500g

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020

Page 1 of 14



**First print date: March 2014**

**Version: 1**

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## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

### **Product identifier:**

**Identification as on the label/Trade name:** HTH® Shock It® 500g

**Additional information:** Product Code: SI500g12; SI500g24

**Relevant identification uses of the substance and uses advised against:**

**Identified uses:** Swimming pool sanitation.

**Uses advised against:** Anything other than swimming pools.

### **Details of the supplier of the Safety Data Sheet:**

Innovative Water Care SA Holding (Pty) Ltd.

(Reg. No. 2018/623823/07)

P O Box 150, Kempton Park, 1620

Situated At: NCP Chloorkop Factory Site

Hytor Street

Chloorkop

Kempton Park, 1619

### **Emergency telephone numbers:**

Poisons Information Centre: 0861 555 777 (24 hours)

+27 11 976 2115 (office hours only)

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## **SECTION 2. HAZARDS IDENTIFICATION**

### **Classification of the substances or mixture:**

**The mixture is classified according to:**

**SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]**

### **Hazard classes/Hazard categories**

Oxidising Solid (Category 2)

Acute Toxicity Oral (Category 4)

Skin Corrosion (Category 1B)

Serious Eye Damage (Category 1)

Specific Organ Toxicity single exposure (Category 3)

Aquatic Acute (Category 1)

### **Hazard statement**

H272

H302

H314

H318

H335

H400

# Safety Data Sheet (SDS) HTH® Shock It® 500g

Page 2 of 14

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



For full text of H-Statements see section 16

**The most important adverse effects:**

**The most important adverse physiochemical effects:** Oxidising solid.

**The most important adverse human health effects:** Causes serious skin corrosion and eye damage.

**Label elements:**

**Hazard pictograms:**



**Signal Words: DANGER**

**Hazard Statements:** H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

**Precautionary Statements:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep/Store away from clothing/ combustible materials. P221 take any precaution to avoid mixing with combustibles. P260 Do not breathe dust or fumes. P280 Wear eye protection. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 wear protective gloves/clothing/eye protection/face protection. P370+P378 In case of fire: Use dry sodium carbonate for extinction. P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/ physician. P305+P351+P338 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 or doctor/ physician. P321 Call a poison centre. P363 wash contaminated clothing before use. P370 + P378 in case of fire: use dry sand, dry chemical or alcohol resistant foam to extinguish. P391 Collect spillage. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional regulations.

**Special labelling of certain mixtures:** None known.

**Other hazards:** None known.



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

**Ingredients:**

Substance name (IUPAC)	CAS-No.	Concentration % by weight	Classification EC1272/2008
	EC-No.		
Calcium hypochlorite	7778-54-3	65-90	Oxidizing Solid (Category 2) H272. Acute Toxicity (Category 4) H302. Skin Corrosive (Category 1B) H314. Aquatic Acute (Category 1) H400.
	231-908-7		
Hydrated lime	1305-62-0	0-5	Skin Irritation (Category 2) H315. Serious Eye Damage (Category 1) H318. STOT SE (Category 3) H335.
	215-137-3		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4. FIRST AID MEASURES

**Description of first aid measures:**

**General Advice:** Have the product container or label with you when calling a poison control centre or doctor, or going for treatment.

**Description of first aid measures:**

**In case of inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of discomfort seek medical attention.

**In case of skin contact:** take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15 minutes. In case of discomfort seek medical attention.

**In case of eye contact:** Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing. Seek medical attention immediately.

**In case of ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Sip water if able to swallow. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed:**

**Inhalation:** Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, and shortness of breath, headache, nausea and vomiting. Inhalation may be fatal as a result of spasm inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



**Ingestion:** Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach. Can cause sore throat, vomiting, diarrhoea.

**Skin Contact:** Corrosive. Symptoms of redness, pain, and severe burns can occur.

**Eye Contact:** Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns.

**Note to Physician:** Probable mucosal damage may contraindicate the use of lavage.

**Indication of any immediate medical attention and special treatment needed:**

None known.

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## SECTION 5. FIREFIGHTING MEASURES

### **Flammability Summary:**

This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire. This product is a strong Oxidizer which is capable of intensifying a fire once started. Product is known to be flammable, combustible or pyrophoric.

### **Flammable properties:**

**Flashpoint:** Not applicable.

**Auto-ignition:** Not applicable.

**Suitable extinguisher media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Prevent contamination of drains or waterways.

**Unsuitable extinguishing media:** Do not use dry chemical fire extinguishers containing ammonium compounds. Do not use carbon tetrachloride fire extinguishers.

**Firefighting instructions:** Use water to cool containers exposed to fire. See section 6 for protective equipment for firefighting.

**Upper Flammable / Explosive limit, % in air:** Not applicable, not applicable.

**Lower Flammable / Explosive limit, % in air:** Not applicable, not applicable.

### **Special hazards arising from the mixture:**

Sealed containers may rupture when heated. An explosion can occur if either a carbon tetrachloride or a dry ammonium compound fire extinguisher is used to extinguish a fire involving calcium hypochlorite.



## **Advice for fire-fighters:**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

Response to a large quantity spill or when dusting or decomposition gas exposure could occur. A use of a positive pressure full face supplied by air respirator or self-contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment

**For non-emergency personnel:** Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation, and contact with skin. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**For emergency responders:** Remove all sources of ignition. Keep water away from spilled material.

### **Spill mitigation procedure:**

**Air release:** Vapours may be suppressed by the use of water fog. All water utilized to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or treatment.

**Water release:** This product is heavier than water. This material is soluble in water. Monitor all exit water for available chlorine and pH. Advise local authorities of any contaminated water release.

**Land release:** DANGER: All spills of this product should be treated as contaminated. Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire or great intensity. In case of a spill, separate all spilled product from packaging, debris, and other material. Using a clean broom / shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labelled. Disposal containers made of plastic or metal are recommended. Do not seal disposal containers. Immediately remove all product in disposal containers to an isolated area outdoors. Place all damaged packaging material in a disposal container of water to assure decontamination (i.e. removal of all products) before disposal. Place all undamaged packaging in a clean, dry container properly marked and labelled. Call for disposal procedures.

### **Environmental precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.



## Methods for containment and cleaning up:

**For small spills:** Contain spilled material if possible. Sweep and shovel, collect with an electrically protected vacuum cleaner or by wet-brushing and place in container according to local regulations. Do not flush with water. Collect in suitable and properly labelled containers.

**For large spills:** Dike area to contain spill. Sweep and shovel, collect with an electrically protected vacuum cleaner or by wet-brushing and place in container according to local regulations. Do not flush with water. Collect in suitable and properly labelled containers.

## 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 information on disposal.

## Additional information:

Hazardous concentration in air may be found in local spill area and immediately down wind. Remove all source of ignition. Stop source of spill as soon as possible and notify the appropriate personnel.

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## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid inhalation of dust and fumes. Do not take internally. Avoid contact with skin eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before use.

**Protective measures:** Observe directions on label and instructions for use. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Advice on general occupational hygiene:** Do not smoke. Do not eat drink or smoke when handling this product.

## Conditions for safe storage, including incompatibilities:

Store in a cool place. Keep container tightly closed in a dry and well ventilated place. Never allow product to get into contact with water during storage. Do not store near other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

## Specific end uses:

Use only as directed.

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



**Incompatible materials for storage:** Do not allow product to come in to contact with other materials including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers ( containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire of great intensity.

**Do not store:** Average daily temperature of 35°C (95°F). Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible materials.

**Shelf Life Limitations:** Do not store product where the average daily temperature exceeds 35°C / 95°F. Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products. Shelf life (that is, the period of time before the product goes below stated label strength) is determined by storage time and temperatures. Store in cool, dry and well-ventilated area. Prolonged storage at elevated temperatures will significantly shorten the shelf life. Storage in a climate controlled storage area or building is recommended in those areas where extremes of high temperature occur.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:**

**Occupational exposure limits:** No data available.

**Biological exposure indices (BEI):** No data available.

**Additional exposure limits under the conditions of use:** No data available.

**Exposure control:**

**Appropriate engineering controls:** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Emergency eye wash should be provided in the immediate work area.

**Hand/Skin protection:** Use chemical resistant gloves. A full impervious suit is recommended if exposure is possible to a large portion of the body. A safety shower should be provided in the immediate work area.

**Body protection:** Not necessary under normal use. For abnormal use, should it occur – it is recommended to wear clothing that is made of Neoprene, Nitrile/butadiene rubber and natural rubber this includes: gloves, boots, apron and protective suit.

**Respiratory protection:** Use an approved air-purifying respirator (SCBA). Respiratory protection should be worn if levels above the airborne exposure limits are possible.

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



**Respirator type:** A (SCBA) approved full face air purifying respirator, equipped with combination chlorine/P100 cartridges. Air purifying respirators should not be used in oxygen deficient or IDHL atmospheres or if exposure concentrations exceed ten (10) times the published limit.

#### Components with workplace control parameters

Components (CAS-No.)	Value	Control parameters	Basis (Update)
CALSIUM HYPOCHLORITE (7778-54-3)	TWA	1 mg/m <sup>3</sup>	IWC OEL*
CALSIUM HYPOCHLORITE (7778-54-3)	Conc	37-48 mg/m <sup>3</sup>	NIOSH/Guide IDLH
CALSIUM HYPOCHLORITE (1305-62-0)	TWA	5 mg/m <sup>3</sup>	ACGIH (02 2014)

\*IWC (Sigura) recommended occupational exposure guideline.

**Environmental exposure controls:** None required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance (form):** Free flowing, granular.

**Colour:** White.

**Odour:** Chlorine odour.

**Odour threshold:** Not known.

**Molecular weight:** 143 g/mol

**Density:** 0.8 g/cm<sup>3</sup>

**pH (14.6 g/L) :** 10.5 – 11.5 (1% solution in neutral, distilled water), (@ 25 °C)

**Melting point/range (°C):** Decomposes above 177°C (350°F), releasing oxygen.

**Boiling point/range (°C):** Not applicable.

**Flash point (°C):** Not applicable.

**Evaporation rate:** Not known.

**Flammability (solid, gas):** Not known.

**Ignition temperature (°C):** Not known.

**Upper/lower flammability/explosive limits:** Not known.

**Vapour pressure (20°C):** Not known.

**Vapour density:** 6.9

**Relative density (25°C):** Not applicable.

**Water solubility (g/l) at 20°C:** 18% Soluble. Product also contains calcium hydroxide and calcium carbonate, which will leave a residue.

**n-Octanol/ Water partition coefficient:** Not known.



According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



**Auto-ignition temperature:** Not known.

**Decomposition temperature:** Not known.

**Viscosity, dynamic (mPa s):** Not known.

**Physical hazards:**

Oxidiser.

**Other information:**

**Volatiles by volume @ 21°C (70°F):** 0 %

**Fat solubility (solvent-oil to be specified):** Not known.

**Bulk density:** Not known.

**Dissociation constant in water (p Ka):** Not known.

**Oxidation-reduction potential:** Not known.

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## SECTION 10. STABILITY AND REACTIVITY

### Stability and Reactivity:

Product is not sensitive to mechanical shock or impact. Product is not sensitive to electrical static discharge. Product will not undergo hazardous polymerization. Product is a Class 3 oxidizer which can cause a severe increase in fire intensity. Not pyrophoric. Not an organic peroxide. If subjected to excessive temperatures, the product may undergo rapid decomposition, evolution of chlorine gas, and heat sufficient to ignite combustible substances. If product is exposed to small amounts of water, it can react violently to produce heat and toxic gasses and spatter. Use copious amounts of water for fires involving this product.

### Chemical stability:

Stable under recommended conditions of storage. Product will not undergo hazardous polymerization.

### Possibility of hazardous reactions:

Hazardous polymerization is not expected to occur.

### Conditions to avoid:

Do not store next to heat source, in direct sunlight, or elevated storage temperature. Do not store where the daily average temperature exceeds 35°C / 95°F. Prevent ingress of humidity and moisture into container or package. Always close the lid.

### Chemical incompatibility:

This product is chemically reactive with many substances e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. Do not allow product to contact any foreign matter, including water treatment products. Contamination or improper use may cause a fire of great intensity, explosion or release toxic gases.

### Hazardous decomposition products:

Chlorine.



## SECTION 11. TOXICOLOGICAL INFORMATION

### Components Animal

#### Toxicology

##### Oral LD50 value:

CALSIUM HYPOCHLORITE	LD50 (65% calcium hypochlorite) 850 mg/kg	Rat
CALSIUM HYDROXIDE	LD50 = 7,340 mg/kg	Rat

### Components Animal

#### Toxicology

##### Dermal LD50 value:

CALSIUM HYPOCHLORITE	LD50 (65% calcium hypochlorite) >2,000 mg/kg	Rabbit
CALSIUM HYDROXIDE	No Data	

### Components Animal

#### Toxicology

##### Inhalation LC50 value:

CALSIUM HYPOCHLORITE	Inhalation LC50 1 h (65% calcium hypochlorite), (Nose only) = 2.04 mg/l	Rat
	inhalation LC50 4 h (65% calcium hypochlorite), (Nose only) = 0.51 mg/l	Rat
CALSIUM HYDROXIDE	No data	

### Product Animal Toxicity

<b>Oral LD50 value:</b>	LD50 believed to be approximately 700 mg/kg	Rat
<b>Dermal LD50 value:</b>	LD50 believed to be > 2,000 mg/kg	Rabbit
<b>Inhalation LC50 value:</b>	LC50 1 h (Nose only) believed to be approximately = 1.7 mg/l	Rat
	LC50 4 h (Nose only) believed to be approximately = 0.425 mg/l	Rat

#### **Toxicokinetics, metabolism and distribution:**

**Non-human toxicological data:** No data available.

**Method:** No data available.

**Dosage:** No data available.

**Routes of administration:** No data available.

**Results:** No data available.



**Absorption:** No data available.

**Distribution:** No data available.

**Metabolism:** No data available.

**Excretion:** No data available.

**Information on toxicological effects:**

**Acute toxicity: Calcium hypochlorite:** LD<sub>50</sub> Oral for rat 850 mg/kg.

**Skin corrosion/irritation:** DRY MATERIAL – Moderate skin irritation, WET MATERIAL – Skin burns.

**Serious eye damage/irritation:** Corrosive to eyes.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** Calcium hypochlorite has been tested in the dominant lethal assay in male mice, and it did not induce dominant lethal response. Calcium hypochlorite has been reported to produce mutagenic activity in two vitro assays. It has however been shown to lack capability to produce mutations in animals based on results from micronucleus assay. In vitro assays frequently are inappropriate to judge the mutagenic potential of bacterial chemicals due to a high degree of cellular toxicity. The Concentration which produces mutations in these vitro assays are significantly greater than the concentrations used for disinfection. Based on high cellular toxicity in in vitro assays and the lack of mutagenicity in animals, the risk of genetic damage to humans is judged not significant.

**Carcinogenicity: Calcium hypochlorite:** IARC category 3.

**Reproductive toxicity:** No data available.

**STOT-single exposure:** No data available.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecological Toxicity values for: CALCIUM HYPOCHLORITE**

Bluegill	(nominal, static). 96 h LC50 0.088 mg/l
Rainbow Trout ( <i>Salmo gairdneri</i> )	(nominal, static). 96 h LC50 0.16 mg/l
Daphnia Manga	(nominal, static). 48 h LC50 0.11 mg/l
Bobwhite quail	Dietary LC50 > 5,000 ppm
Mallard Ducklings	Dietary LC50 > 5,000 ppm
Bobwhite quail	Oral LD50 3,474 mg/kg

**Ecological Toxicity values for: CALCIUM HYPOCHLORITE**

Bluegill	(nominal, static). 96 h LC50 = 10,650 mg/l
Mosquito Fish	(nominal, static). 96 h LC50 = 13,400 mg/l
Pimephales Promelas (Fathead Minnow)	(nominal, static). 96 h LC50 = 4,630 mg/l
Daphnia Manga	(nominal, static). 48 h LC50 = 2,770 mg/l
Ceriodaphnia Dubia	(nominal, static). 48 h LC50 = 1,830 mg/l



Nitzschia Linearis (diatom)

(nominal, static). 5 day LC50 = 3,130 mg/l

**Toxicity:**

No data available.

**Persistence and degradability:**

No data available.

**Bioaccumulative potential:**

No data available.

**Mobility in soil**

No data available.

**Results of PBT& vPvB assessment:**

No data available.

**Other adverse effects:**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT GOVERNMENT LAWS AS WELL AS REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUSE WASTES.**

**Waste treatment methods:**

Dispose of in accordance with municipal, provincial and national regulations.

**Product/ packaging disposal:**

Recycle where possible.

**SECTION 14. TRANSPORT INFORMATION**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	1748	1748	1748
UN Proper shipping name:	CALCIUM HYPOCHLORITE, DRY	CALCIUM HYPOCHLORITE, DRY	CALCIUM HYPOCHLORITE, DRY
Transport hazard class:	5.1	5.1	5.1
Packaging group:	II	II	II
Marine pollutant:	Yes	Yes	Yes
Special precautions for user:			



<b>Transport in bulk according to MARPOL 73/78 Annex II and the IBC code</b>			
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**SECTION 15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation for the mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

**Relevant information regarding restrictions:** None known.

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

**Other National regulations:** None.

**Chemical Safety Assessment carried out?** No.

**16. OTHER INFORMATION**

Components	CAS-No.	Components RQ (lbs)	Calculated product RQ (lbs)
Calcium Hypochlorite	7778-54-3	10	11

**Indication of changes:**

GHS aligned.

2020/03/31 – Company logo changed to Sigura; Details of the supplier of SDS changed to reflect new

entity name

**Relevant classification and H statements (number and full text):**

STOT SE (Category 3): Specific Target Organ Toxicity single exposure (Category 3)

Aquatic Acute (Category 1): Hazardous to the Aquatic Environment Acute 1

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. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

**Training instructions:**

Use as instructed.

**Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:**

# Safety Data Sheet (SDS) HTH® Shock It® 500g

Page 14 of 14

According to SANS 10234/UN GHS 7<sup>th</sup> edition  
Revision Date: 31 March 2020



Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.