



First print date: October 2014

Version: 4

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier:

**Identification as on the label/Trade name:** HTH® Green to Blue™ pack 1

**Additional information:** Part 1 of a 2-pack system Product Code: GTB6

### 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 Chlookop Factory Site

Hytor Street

Chlookop

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

Corrosive to metal (Category 1)

Skin Irritation (Category 2)

Serious Eye Damage (Category 1)

#### Hazard statement

H290

H315

H318

For full text of H-Statements see section 16

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**The most important adverse effects:**

**The most important adverse physiochemical effects:** May be corrosive to metal.

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

**Label elements:**

**Hazard pictograms:**



**Signal Words: DANGER**

**Hazard Statements:** H290 May be corrosive to metal. H315 Causes severe skin irritation. H318 Causes serious eye damage.

**Precautionary Statements:** P264 Wash skin thoroughly after handling. P280 Wear eye protection/face protection. P282 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER/doctor if you feel unwell. 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 or doctor/physician. P312: Call POISON CENTRE or doctor/physician if you are feeling unwell. P332 + P313: If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P402 + P404 Store in a dry place. Store in a closed container, P410 + P403 Protect from sunlight. Store in a well-ventilated place. P501 Dispose of contents/container in accordance with local regulation.

**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.		
Sodium hydrogensulphate	7681-38-1	80-90	Serious Eye Damage (Category 1) H318.
	231-665-7		

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Poly ammonium chloride	1327-41-9	10-20	Corrosive to Metal (Category 1) H290. Serious Eye Damage (Category 1) H318.
	215-477-2		

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:

**In case of inhalation:** Remove person into fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. If not breathing, give artificial respiration. Call for medical assistance.

**In case of skin contact:** Wash off with soap and plenty of water for at least 15 minutes. If clothing comes into contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.

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

**In case of ingestion:** Seek medical attention. Do NOT induce vomiting unless directed to do so by a doctor. Never give anything by mouth to an unconscious person

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

**Inhalation:** This product is corrosive to all tissues contacted and upon inhalation, may cause irritation to mucous membranes and respiratory tract.

**Ingestion:** This product is corrosive to all tissues contacted.

**Skin Contact:** **DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL CAUSES SKIN BURNS.** The dry material is irritating to the skin, however when wet, it will produce burns to the skin.

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

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

None.

## SECTION 5. FIREFIGHTING MEASURES

### Extinguisher media:

**Suitable extinguisher media:** Choose extinguishing media suitable for surrounding materials.

**Unsuitable extinguishing media:** Water jet.



**Special hazards arising from the mixture:**

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Products of de-composition – sulphur dioxide, sulphur trioxide.

**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.

**Additional information:**

None.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

**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:** 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

**Environmental precautions:**

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

**Methods for containment and cleaning up:**

**Air release:** Vapours may be suppressed using water fog.

**Water release:** Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all solids for treatment or disposal.

**Land release:** Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Do not place spill materials back in their original containers.

**Reference to other sections:**

See section 7 for information on safe handling.

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See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

### **Additional information:**

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration.

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## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for safe handling:**

**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 reuse.

**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.

### **Conditions for safe storage, including incompatibilities:**

**Storage:** Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Avoid contact with water, or moist air. Incompatible to strong alkalis.

**Do not store at temperatures above:** 175°C.

**Specific end uses:** Use only as directed.

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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 limit if applicable.

**Protective equipment for routine use of product:**



**Respiratory Protection:** If dusting occurs, wear an approved respirator. Otherwise use general exhaust ventilation.

**Skin protection:** Wear impervious gloves to avoid skin contact.

**Protective clothing type:** Butyl rubber, neoprene.

**Eye protection:** Use chemical safety goggles.

**General Protection Measures:** An eye wash and safety shower should be provided in the immediate work area.

**Environmental exposure controls:** Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance (form):** Powder.

**Colour:** White.

**Odour:** Pungent.

**Odour threshold:** Not known.

**pH (5% solution):** <1.0

**Melting point/range (°C):** Not known.

**Boiling point/range (°C):** Decomposes 177°C.

**Flash point (°C):** Not known.

**Evaporation rate:** Not known.

**Flammability (solid, gas, liquid):** Not flammable.

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

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

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

**Vapour density:** Not known.

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

**Water solubility (g/l) at 25°C:** 1080.00000 g/L 68.00 °F

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

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

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**Decomposition temperature:** 315°C.

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

**Physical hazards:**

Corrosive to metal.

**Other information:**

**Volatiles by volume @ 21°C (70°F):** Not applicable.

**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

### Reactivity:

Stable under normal conditions. Not sensitive to mechanical shock. Not sensitive to static discharge. Will react in water to form a weak solution of sulphuric acid.

### 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:

Sparks, open flame, other ignition sources, and elevated temperatures.

### Incompatible materials:

Acids, bases and oxidisers.

### Hazardous decomposition products:

Sulphur oxides.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicokinetics, metabolism and distribution:

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

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**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:**

**Sodium hydrogensulphate**

Acute oral LD<sub>50</sub> for rat 2 800 mg/kg (estimated).

**Skin corrosion/irritation:** DRY MATERIAL CAUSES MODERATE SKIN IRRITATION, WET MATERIAL CAUSES SKIN BURNS.

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

**Respiratory or skin sensitization:** This material is not known or reported to be a skin or respiratory sensitiser.

**Germ cell mutagenicity: Sodium hydrogensulphate:** This product was determined to be non-mutagenic in the Ames assay., This product has been shown to be negative for cell transformation in the Syrian hamster embryo (SA7/SHE) cell assay.

**Carcinogenicity:** This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

**Reproductive toxicity:** Not known or reported to cause reproductive or developmental toxicity.

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

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

**Aspiration hazard:** No data available.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity:**

Slightly toxic to fish and other aquatic organisms.



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**Sodium hydrogensulphate:**

**Fish:** LC<sub>50</sub> (96 h) for Bluegill sunfish (*Lepomis macrochirus*) 12 750 mg/L, Fathead minnow (*Pimephales promelas*) 7 960 mg/L and Mosquito fish (*Gambusia affinis*) 3 750 mg/L.

**Daphnia:** LC<sub>50</sub> (48 h) water flea (*Daphnia magna*) 2 564 mg/L and (*Ceriodaphnia dubia*) 3 080 mg/L.

**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

**Waste treatment methods:**

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

**Product/ packaging disposal:**

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 LOCAL, NATIONAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

## SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
<b>UN-Number</b>	3260	3260	3260
<b>UN Proper shipping name:</b>	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

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<b>Transport hazard class:</b>	8	8	8
<b>Packaging group:</b>	III	III	III
<b>Marine pollutant:</b>	No	No	No
<b>Special precautions for user:</b>	No information	No information	No information
<b>Transport in bulk according to MARPOL 73/78 Annex II and the IBC code</b>	No information	No information	No information

## 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.

## SECTION 16. OTHER INFORMATION

### 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):

H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage.

### 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:

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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.