First print date: March 2014

Version: 8

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier:

Identification as on the label/Trade name: HTH® Sparkle It™ Cube

Additional information: Product Code: SPIC

Relevant identification uses of the substance and uses advised against:

Identified uses: Swimming pool water treatment.

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)

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	Hazard statement
Skin Irritation (Category 2)	H315
Eye Irritation (Category 2)	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

For full text of H-Statements see section 16

The most important adverse effects:

The most important adverse physiochemical effects: None**.**

The most important adverse human health effects: May cause skin and eye irritation.

Label elements:

Hazard pictograms:

Signal Words: Warning

Hazard Statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P264 Wash thoroughly after handling. P273 Avoid release to the environment. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; P337 + P313 If eye irritation persists: Get medical advice/ attention. 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. EC-No.	Concentration % by weight	Classification EC1272/2008
Didecyldimethylammonium chloride	7173-51-5 230-525-2	1-2	Acute Toxicity (Category 3) H301. Skin Corrosion (Category 1B) H314. Eye Irritant (Category 2) H319. Aquatic Acute 1 H400. Aquatic Chronic 1 H410.
Polyamine solution	-	25-40	Aquatic Chronic 1 H410.
Polyamine	42751-79-1 -	10-20	Aquatic Acute 1 H400. Aquatic Chronic 1 H410.

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: If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of discomfort seek medical attention if you feel unwell.

In case of skin contact: Wash off with soap and plenty of water for at least 15 minutes. In case of discomfort seek medical attention if irritation occurs.

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 if irritation occurs.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink small quantities of water if conscious. Seek medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Inhalation: Not known.

Ingestion: May be harmful if swallowed.

Skin Contact: May cause eye irritation.

Eye Contact: May cause eye irritation.

Indication of any immediate medical attention and special treatment needed:

None known.

SECTION 5. FIREFIGHTING MEASURES

Extinguisher media:

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

Unsuitable extinguishing media: None known.

Special hazards arising from the mixture:

None known.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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: Keep upwind, avoid inhaling vapour. Prevent material from entering sewers, waterways or confined spaces.

Environmental precautions:

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

Methods for containment and cleaning up:

For small spills: Contain area. Collect in suitable and properly labelled containers. Clay, soil or commercially available absorbents may be used to recover any material that cannot be recovered as pure product. Refer Section 13 for information on disposal

For large spills: Contain area. Minimize adverse effects on the environment. Collect in suitable and properly labelled containers. Clay, soil or commercially available absorbents may be used to recover any material that cannot be recovered as pure product. Refer Section 13 for information on disposal.

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:

None know.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Protective measures: Observe directions on label and instructions for use. Avoid contact with skin and eyes.

Advice on general occupational hygiene: Do not smoke. Do not eat drink or smoke when handling this product. Wash hands after handling the product.

Conditions for safe storage, including incompatibilities:

Store in the original packaging in a cool, dry, well-ventilated area away from direct sunlight and incompatible materials. Stainless steel, polypropylene or polyethylene containers are recommended.

Specific end uses:

Use only as directed.

Shelf Life Limitations: 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. Storage in a climate controlled storage area or building is recommended in those areas where extremes of high temperature occur.

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.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses, if there is a potential for exposure to product during normal use which could cause eye discomfort.

Hand protection: Use chemical resistant gloves if during normal use is required, examples of preferred glove barrier materials include: Butyl rubber, Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, polyvinyl alcohol, Polyvinyl chloride.

Body protection: Should be selected based on the task being performed and the risks involved.

Respiratory protection: Not necessary under normal use. If discomfort is experienced, use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Environmental exposure controls: None required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Gel cube.

Colour: Colourless.

Odour: Not known.

Odour threshold: Not known

pH: 5-7

Melting point/range (ºC): Not known.

Boiling point/range (ºC): 100ºC.

Flash point (ºC): >93ºC

Evaporation rate: Not known.

Flammability (solid, gas): Not known.

Ignition temperature (ºC): Not known.

Upper/lower flammability/explosive limits: Not known.

Vapour pressure (20ºC): Not known.

Vapour density: Not known.

Density (25ºC): 1.1-1.2

Water solubility: Soluble in water

n-Octanol/ Water partition coefficient: Not known.

Auto-ignition temperature: Not known.

Decomposition temperature: Not known.

Viscosity, dynamic (mPa s): Not known.

Physical hazards:

Corrosive to some metals.

Other information:

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.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

Product is stable.

Chemical stability:

Reactive to some metals.

Possibility of hazardous reactions:

Hazardous polymerization is not expected to occur.

Conditions to avoid:

Do not store in metal containers.

Incompatible materials:

Oxidizing agents. This product may corrode iron, copper and aluminium.

Hazardous decomposition products:

Decomposes to form carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

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:

Ingredient name	Result	Species	Dose
Didecyldimethylammonium chloride	LD50 Oral	Rat	84mg/kg
Polyamine solution	LD50 Dermal LD50 Oral	Rabbit Rat	>2000mg/kg >5000 mg/kg

Skin corrosion/irritation:

Ingredient name	Result	Species	Exposure
Didecyldimethylammonium chloride	Skin – severe irritant	Rabbit	500mg

Serious eye damage/irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

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

Toxicity:

Ingredient name	Result	Species	Exposure
Didecyldimethylammonium chloride	Acute EC50 110 ug/l Fresh water	Algae – chlorella pyrenoidosa – exponential growth phase	72 hours
	Acute EC50 14.22 ppb Fresh water	Algae – pseudokirchneriella subcapitata	96 hours
	Acute EC50 18ppb Fresh Water	Daphna – Daphnia magna	48 hours
	Acute LC50 39 ug/l Marine water	Crustaceans – Americamysis bahia – juvenile (fledgling, hatchling, weanling)	48 hours
	Acute LC50 0.01 ug/l Fresh Water	Fish – acipenser transmontanus – Larvae	96 hours
	Chronic NOEC 25 ug/l Fresh water	Algae – pseudokirchneriella subcapitata – exponential growth phase	72 hours
	Chronic NOEC 125 ug/l Fresh water	Daphnia – Daphnia magna	21 days
Polyamine solution	Acute EC 10 – 100mg/l	Daphnia	48 hours
	Acute IC50 10 -100mg/l	Algae	72 hours
	Acute LC50 10 - 100mg/l	Fish	96 hours
Polyamine	Acute LC50 0.07mg/l	Daphnia – Daphnia pulex	48 hours

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.

Packaging disposal:

Recycle where possible.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Polyamine solution)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Polyamine solution)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Polyamine solution)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	Yes	Yes	Yes
Special precautions for user:	None	None	None
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

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):

Aquatic Acute 1- Hazardous to the Aquatic Environment Acute 1

Aquatic Chronic 1- Hazardous to the Aquatic Environment Chronic 1

H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H318 Causes skin irritations. H319 Causes serious eye irritations. H400 Very toxic to aquatic life. H410 Very toxic to aquatic lifer with long lasting effects.

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:

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.