First print date: March 2014

Version: 07

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier:

Identification as on the label/Trade name: HTH® Metal Remover 10L

Additional information: Product Code SCIMR10

Relevant identification uses of the substance and uses advised against:

Identified uses: Chelating of metals in commercial swimming pools

Uses advised against: Any other use than chelating of metals in commercial 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
Corrosive to Metals (Category 1)	H290
Acute Toxicity Oral (Category 5)	H303
Acute Toxicity Dermal (Category 5)	H313
Skin Irritation (Category 2)	H315
Serious Eye Damage (Category 1)	H318

For full text of H-Statements, see section 16

The most important adverse effects:

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

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

Label elements:

Hazard pictograms:

Signal Words: DANGER

Hazard Statements: H290 May be corrosive to metals. H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage.

Precautionary Statements: P234 Keep only in original container. P264 Wash hands thoroughly after handling. P280 Wear eye protection. P390 Absorb spillage to prevent material damage. 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. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

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
Di-Phosphonic acid	2809-21-4 220-552-8	20 - 25	Corrosive to Metal (Category 1) H290. Acute Toxicity (Oral) (Category 4) H302. Serious Eye Damage (Category 1) H318.

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.

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.

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. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed:

Inhalation: Not known.

Ingestion: Not known.

Skin Contact: Not known.

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

Indication of any immediate medical attention and special treatment needed:
No information.

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: Remove all sources of ignition. Keep water away from spilled material.

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. Clay, soil or commercially available absorbents may be used to recover any material that cannot be recovered as pure product. May be neutralized with hydrated lime or soda ash. Collect in suitable and properly labelled container.

For large spills: Contain area to prevent spill from spreading. Minimize adverse effects on the environment. Recover as much as possible of the pure product into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Clay, soil or commercially available absorbents may be used to recover any material that cannot be recovered as pure product. May be neutralised with hydrated lime or soda ash.

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 known.

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.

Conditions for safe storage, including incompatibilities:

Keep cool and dry in a tightly sealed container away from direct sunlight. Do not store close to strong oxidizers or reducing agents.

Specific end uses:

Use only as directed. Store in HDPE, PVC and polypropylene containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits: Hydrochloric acid 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 particles that could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include: Butyl rubber, Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, polyvinyl alcohol, Polyvinyl chloride.

Body protection: Not necessary under normal use.

Respiratory protection: 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): Liquid.

Colour: Colourless to amber.

Odour: Mild odour.

Odour threshold: Not known.

pH (14.6 g/L): <2

Melting point/range (°C): Not known.

Boiling point/range (°C): >100°C

Flash point (°C): Not known.

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: Not known.

Specific gravity (20°C): 1.45

Water solubility (g/l) at 20°C: Miscible 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 metal.

Other information:

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

Bulk density: Not known.

Dissociation constant in water (pKa): Not known.

Oxidation-reduction potential: Not known.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

Stable under normal conditions of use and storage.

Chemical stability:

Reactive to metal with liberation of hydrogen.

Possibility of hazardous reactions:

Hazardous polymerization is not expected to occur.

Conditions to avoid:

Do not store in metal containers.

Incompatible materials:

Oxidizing agents.

Hazardous decomposition products:

Decomposes to form carbon monoxide, carbon dioxide and phosgene.

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:

LD_{50} Oral for rat 2400 mg/kg.

Dermal LD_{50} for rat 3500 mg/kg.

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/irritation: Corrosive to eyes.

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:

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

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	3265	3265	3265

UN Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S.
Transport Hazard Class:			
Packaging Group:	III	III	III
Marine Pollutant:	No	No	No
Special Precautions for User:			
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code			

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.

2020/01/09 – 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. H302 Harmful if swallowed. H303 May be harmful if swallowed. H313 May be harmful in contact with skin. 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:

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.