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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier:

Identification as on the label/Trade name: HTH® Hydrochloric Acid

Additional information: Product Codes HYDRO28; HYDRO1000

Relevant identification uses of the substance and uses advised against:

Identified uses: Industrial, municipal and commercial water treatment applications.

Uses advised against: Anything other than Industrial, municipal and commercial water treatment applications.

Details of the supplier of the Safety Data Sheet:

Arch Water Products South Africa (Pty) Ltd.

(Reg. No. 1972/014058/07)

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

Skin Corrosion (Category 1B)

Serious Eye Damage (Category 1)

Specific Organ Toxicity single exposure (Category 3)

Hazard statement

H314

H318

H335

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: Causes severe skin burns and eye damage.

Label elements:

Hazard pictograms:



Signal Words: DANGER

Hazard Statements: H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

Precautionary Statements: P260 Do not breathe dust or fumes. P264 Wash thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P271 Use only outdoors or in a well-ventilated area. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P309 +P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician. P363 Wash contaminated clothing before reuse. P310 Immediately call a POISON CENTER or doctor/ physician. 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.		
Hydrochloric acid (30%)	7647-01-0	90-100%	Skin Corrosion (Category 1A) H314. Acute Toxicity (Category 3) (Inhalation) H331.
	231-595-7		

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: Corrosive to tissues of the mucous membranes and upper respiratory tract.

Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach.

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.

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:

Contact with common metals may produce hydrogen gas which may form an explosive mixture in air.

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: Absorb with neutralisers, contain spilled material if possible. Collect in suitable and properly labelled containers.

For large spills: Dike area to contain spill. Prevent material from entering sewers, waterways or confined spaces. Contain spill with earth sand or non-reactive absorbent material. Contaminated material must be disposed of by approved waste removal specialists after removal, neutralize spill area with lime or soda ash and flush with water. Water fog or spray may be necessary to knock down vapours.

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. 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, other 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.

Shelf Life Limitations: 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: Hydrochloric acid STEL OEL-RL: 5 ppm, 7 mg/m³

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 which 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: 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): Liquid.

Colour: Yellow.

Odour: Pungent odour.

Odour threshold: Not known.

pH (0.1 N solution) : 1.0

Melting point/range (°C): - 35°C

Boiling point/range (°C): Not known.

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: 1.27

Relative density (25°C): Not known.

Water solubility (g/l) at 20°C: Soluble

n-Octanol/ Water partition coefficient: Not known.

Auto-ignition temperature: Not known.

Decomposition temperature: Not known.

Viscosity, dynamic (mPa s): Not known.

Physical hazards:

May be corrosive to metals.

Other information:

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

Bulk density: 1.18 (30 % solution)

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

Oxidation-reduction potential: Not known.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

Product is stable.

Chemical stability:

Large amounts of heat can be released when concentrated acid is mixed with water or solvents.
Corrosive to most metals.

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. Always close the lid.

Incompatible materials:

Other acids and alkaline compounds.

Hazardous decomposition products:

Chlorine.

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: No data available.

Skin corrosion/irritation: No data available.

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:

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	1789	1789	1789
UN Proper shipping name:	HYDROCHLORIC ACID	HYDROCHLORIC ACID	HYDROCHLORIC ACID
Transport hazard class:	8	8	81789
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			
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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.

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned.

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

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation.

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.