

First print date: February 2014

Version: 05

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier:

Identification as on the label/Trade name: Pace Industrial Tablets

Additional information: Product Code SCIP15

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 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)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substances or mixture:

The substance 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)

Eye Irritation (Category 2A)

Specific Organ Toxicity single exposure (Category 3)

Aquatic Acute (Category 1)

Aquatic Chronic (Category 1)

Hazard statement

H272

H302

H319

H335

H400

H410

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 eye irritation.

Label elements:

Hazard pictograms:



Signal Words: DANGER

Hazard Statements: H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.

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. 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. P262 Do not get in eyes, on skin, or on clothing. P370+P378 In case of fire: Use dry sodium carbonate for extinction. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P330 Rinse mouth. 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. P391 Collect spillage. P302 +P352 IF ON SKIN: Wash with plenty of water. P310 Immediately call a POISON CENTER or doctor/ physician. P361 +P364 Take off immediately all contaminated clothing and wash it before reuse. P337 +P313 If eye irritation persists: Get medical advice/ attention. 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: Substance

Ingredients:

Substance name (IUPAC)	CAS-No.	Concentration % by weight	Classification EC1272/2008
	EC-No.		
Trichloroisocyanuric acid	87-90-1	95-100	Oxidizing Solid (Category 2) H272. Acute Toxicity (Category 4) H302. Eye Irritation (Category 2) H319. STOT SE (Category 3) H335. Aquatic Acute (Category 1) H400. Aquatic Chronic (Category 1) H410.
	201-782-8		

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: This product in the form of solid tablets is not an inhalation hazard. However, if dust is created and inhaled, inhalation of this material in dust or vapour form is irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Chronic (repeated) inhalation exposure may result in permanent lung damage. Toxic by inhalation (dust).

Ingestion: Toxic if swallowed. Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhoea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

Skin Contact: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET MATERIAL CAUSES SKIN BURNS.

Dermal exposure to dry material causes moderate skin irritation characterized by redness and swelling. Dermal exposure to wet material can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause permanent damage.

Repeated skin exposure may cause tissue destruction due to the corrosive nature of the product.

Eye Contact: Severe irritation and/or burns can occur following eye exposure.

Acute Target Organ: This product is irritant to all tissues contacted upon inhalation, may cause irritation to mucous membranes and respiratory tract. The dry material is irritating to the skin. However when wet, it will produce burns to the skin.

Indication of any immediate medical attention and special treatment needed:

None known.

SECTION 5. FIREFIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Use water spray or fog only. Prevent contamination of drains or waterways. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishments can be accomplished.

Unsuitable extinguishing media: Do not use dry chemical extinguishers containing ammonia compounds.

Special hazards arising from the mixture:

Flammable limits at normal atmospheric temperature and pressure (Percent volume in air):

Will decompose at 225°C with release of Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and carbon dioxide.

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: Response to large quantity spill or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied 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. Compatible materials for response to this material are: neoprene. Protection concerns must also address the following: if this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

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. Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean, dry container.

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. 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. Organic materials, reducing agents, nitrogen containing materials, oxidisers, acid, bases (Incompatible materials for packaging: paper, cardboard).

Specific end uses:

Use only as directed. Do not store at temperatures above 60 °C (140 deg. F).

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. 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.

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: Use an approved air-purifying respirator. Respiratory protection should be worn.

Environmental exposure controls: None required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Tablet.

Colour: White.

Odour: Chlorine odour.

Odour threshold: Not known.

pH (1% solution) : Not known.

Melting point/range (°C): 225-230°C (437-466°F), decomposition.

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: Not known.

Specific gravity: 2.0 (bulk density =1).

Water solubility (g/l) at 25°C: Moderate (1.2 g/100 ml)

n-Octanol/ Water partition coefficient: Not known.

Auto-ignition temperature: Not known.

Decomposition temperature: 225 – 230 °C

Viscosity, dynamic (mPa s): Not known.

Physical hazards:

Oxidiser.

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:

Unstable under conditions of heat and moisture. Not sensitive to mechanical shock. Not sensitive to static discharge. Product will not undergo hazardous polymerization.

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 flames, other ignition sources and elevated temperatures. Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes. Damp or slightly wet product will evolve nitrogen trichloride.

Incompatible materials:

Organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, other oxidizers, acids, bases, dry fire extinguishers containing ammonium compounds.

Hazardous decomposition products:

Not known.

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: LD₅₀ Oral for rat 462 mg/kg. Human oral LDL 3570 mg/kg.

Moderately toxic to humans experimentally by ingestion. Mildly toxic experimentally by skin contact. Human systematic effects by ingestion: ulceration or bleeding from stomach. Toxicity symptoms include emaciation, lethargy, weakness and delay death.

Autopsy shows inflammation of gastrointestinal tract, liver discoloration and kidney hyperaemia.

Skin corrosion/irritation: A severe skin irritant.

Serious eye damage/irritation: A severe eye irritant.

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	2468	2468	2468
UN Proper shipping name:	TRICHLOROISOCYANURIC ACID, DRY	TRICHLOROISOCYANURICA CID, DRY	TRICHLOROISOCYANURICACID, DRY
Transport hazard class:	5.1	5.1	5.1
Packaging group:	II	II	II
Marine pollutant:	Yes	Yes	Yes
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.

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

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

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

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

H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life 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.