



SAFETY DATA SHEET

PRODUCT NAME: POOL TREAT MAXI-TABS, MULTI-TABS

Issue Date: October 22

IDENTIFICATION

Product Name: Pool Treat Maxi-Tabs, Pool Treat Multi-Tabs
Other Names: Tri Chlor Tablets, Trichloroisocyanuric Tablets
Product Code: PMAXT1.4, PMAXT2, PMAXT4, PMAXT10, PMAXT20
PMULT1.4, PMULT2, PMULT4, PMULT10, PMULT20
Uses: 1 tablet per 25,000L of water every 5-7 days. Swimming pool water sanitiser.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.nz Email: sales@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Oxidising Solid – Category 2
Acute Toxicity (Oral) – Category 4
Skin Irritation – Category 2
Serious Eye Damage – Category 1
Hazardous to the Aquatic Environment (Acute) – Category 1
Hazardous to the Aquatic Environment (Chronic) – Category 1

Signal Word: DANGER

Hazard Statements

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H315 Causes skin irritation
H318 Causes serious eye damage
H410 Very toxic to aquatic life with long lasting effects.

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P221 Keep away from clothing and other combustible materials
P280 Wear protective gloves/clothing and eye/face protection
P264 Wash hands thoroughly after handling
P273 Avoid release to the environment.
P270 Do not eat, drink or smoke when using this product.

Response

P370 + P378 In case of fire: Use flooding quantities of water to extinguish.
P301+P312 IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell
P330 Rinse mouth
P302+P352 IF ON SKIN: Wash with plenty of water.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse

P391 Collect spillage.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or Doctor

Disposal

P501 Dispose of contents/container to an approved waste facility in accordance with local regulations.

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Trichloroisocyanuric acid	87-90-1	> 80%

FIRST AID MEASURES**National Poisons Centre (NZ) – 0800 764 766 (0800 POISON)**

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor/physician if respiratory symptoms persist or if you feel unwell. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult.

Skin Contact: Remove material from skin immediately. Remove contaminated clothing and shoes immediately. Flush skin and hair with running water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Protect unharmed eye. Remove contact lenses if present and easy to do. Continue rinsing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

Ingestion: Rinse mouth, then drink plenty of water. Do NOT induce vomiting. Call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.

Notes to physician: Treat symptomatically. Ensure that attending medical personnel are aware of identity and nature of the product(s) involved, and take precautions to protect themselves.

FIRE FIGHTING MEASURES

General Measures: If safe to do so, move undamaged containers from fire area - Do not move cargo if cargo has been exposed to heat. Cool containers with water spray until well after fire is out; If impossible, withdraw from area and let fire burn. Avoid getting water inside containers.

Flammability Conditions: OXIDISING SUBSTANCE: Will accelerate burning when involved in a fire.

Extinguishing Media: Use flooding quantities of water for extinction - Do not use dry chemicals, Carbon dioxide (CO₂) or foam. For large fires: Flood fire area with water from a protected position.

Fire and Explosion Hazard: Risk of violent reaction or explosion - May explode from heating, shock, friction or contamination. May ignite combustibles. Containers may explode when heated. Runoff may create fire or explosion hazard.

Hazardous Products of Combustion: Fire may produce irritating, toxic and/or corrosive gases, including Nitrogen oxides (NO_x), Hydrogen chloride (HCl), Chlorine.

Special Fire Fighting Instructions: Contain/dam fire control water for later disposal - Runoff may pollute waterways; Runoff may create fire or explosion hazard.

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Personal Protective Equipment: Liquid-tight chemical protective clothing (splash suit) in combination with self-contained breathing apparatus (SCBA) should be used. Structural firefighter's uniform will provide limited protection.

Flash Point: No Data Available

Lower Explosion Limit: No Data Available

Upper Explosion Limit: No Data Available

Auto Ignition Temperature: No Data Available

Hazchem Code: 1W

ACCIDENTAL RELEASE MEASURES

General Response Procedure: Ensure adequate ventilation. Do not contaminate. Keep combustibles away from spilled material. Prevent exposure to heat. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. For large spills: Immediately contact Emergency Services.

Clean Up Procedures: Sweep up (avoiding generation of dust) then immediately spread as a thin layer in an uncontaminated, dry open area, to avoid the possibility of hot spots forming. Gradually hose to drain ensuring large dilution. Do not store or transport swept up material. Do not return spilled material to original container. Do not add small amount of water to material. Where a spill has occurred in a confined space or an unventilated building and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash.

Containment: Prevent entry into waterways, drains or confined areas.

Decontamination: Flush with large quantities of water.

Environmental Precautionary Measures: Spillages and decontamination runoff should be prevented from entering drains and watercourses.

Evacuation Criteria: Spill or leak area should be isolated immediately. Keep unauthorized personnel away. Keep upwind and to higher ground. For large spills: Consider initial downwind evacuation of areas within at least 100 m.

Personal Precautionary Measures: For large spills: Wear self-contained breathing apparatus (SCBA) and chemical splash suit.

HANDLING & STORAGE

Handling: Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/mist/vapours and contact with eyes, skin and clothing. Wear protective gloves/eye protection/face protection; In case of inadequate ventilation, wear respiratory protection. Keep away from heat. Do not contaminate or mix with other chemicals. Take any precaution to avoid mixing with combustibles. When mixing with water, NEVER add water to product - ALWAYS add product to water and use clean, dry dispensing equipment.

Storage: Store in a cool, dry and well-ventilated place, away from sunlight. Keep container upright and tightly sealed. Hygroscopic - Protect from moisture/humidity. Keep/store away from combustible materials - Do not use wooden shelves. Keep away from incompatible materials (organic compounds, reducing agents, nitrogen containing compounds, sodium or calcium hypochlorite, other oxidisers, acids and alkalis). Keep away from heat; Maximum storage temperature: 25 °C. Store locked up.

Container: Keep in the original container or suitable material, i.e. steel, stainless steel.

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PRODUCT NAME: POOL TREAT MAXI-TABS, MULTI-TABS**EXPOSURE CONTROLS & PERSONAL PROTECTION**

General: No specific exposure standards are available for this product.

DECOMPOSITION PRODUCT: Chlorine (CAS No. 7782-50-5):

- Safe Work Australia Exposure Standard: TWA = 1 ppm (3 mg/m³) Peak limitation.

Exposure Limits: No Data Available

Biological Limits: No information available

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment

Respiratory protection: Wear respiratory protection in case of inadequate ventilation and for chlorine/dust inhalation protection. Recommended: Approved air-purifying respirator, when airborne chemical dust or mist may be present. Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Tightly sealed goggles. Hand protection: Wear protective gloves. Recommended: Nitrile rubber (Minimum break-through time: 480 min; Minimum thickness: 0.11 mm). Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long sleeves, plastic apron, boots if handling large quantities.

Special Hazards Precautions: No information available.

Work Hygienic Practices: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas and wash before storage or reuse.

PHYSICAL & CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline powder, granules or tablets
Odour	Chlorine, pungent
Colour	White
pH	2.0 - 2.7 10 g/l (20 °C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	<0.1 g/l water (decomposes slowly)
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	~850 kg/m ³
Corrosion Rate	No Data Available
Decomposition Temperature	225 - 230 °C
Density	2.07 g/cm ³
Specific Heat	No Data Available
Molecular Weight	232.41 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available

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VOC Volume

No Data Available

Additional Characteristics

No information available.

Potential for Dust Explosion

No information available.

Fast or Intensely Burning Characteristics: Risk of violent reaction or explosion - May explode from heating, shock, friction or contamination.

Flame Propagation or Burning Rate of Solid Materials: No information available

Non-Flammables That Could Contribute Unusual Hazards to a Fire: No information available.

Properties That May Initiate or Contribute to Fire Intensity: OXIDISING SUBSTANCE: Will accelerate burning when involved in a fire.

Reactions That Release Gases or Vapours: Nitrogen trichloride is formed on contact with water or humidity. During heating or in case of fire, poisonous gases are produced, including nitrogen oxides (NOx), hydrogen chloride (HCl), chlorine.

Release of Invisible Flammable Vapours and Gases: Gives off hydrogen by reaction with metals.

STABILITY & REACTIVITY

General Information: Highly reactive oxidising chlorine compound. May cause fire or explosion. Reacts exothermically with water.

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Keep away from heat. Do not contaminate - Take any precaution to avoid mixing with combustibles. Protect from moisture/humidity.

Materials to Avoid: Avoid contact with easily oxidizable material such as organic compounds, reducing agents, nitrogen containing compounds, sodium or calcium hypochlorite, other oxidizers, acids and alkalis.

Hazardous Decomposition Products: Gives off hydrogen by reaction with metals. Nitrogen trichloride is formed on contact with water or humidity. During heating or in case of fire, poisonous gases are produced, including nitrogen oxides (NOx), hydrogen chloride (HCl), chlorine.

Hazardous Polymerisation: No information available.

TOXICOLOGICAL INFORMATION

General Information: Acute toxicity: Harmful if swallowed.

Skin corrosion/irritation: Non-irritant. May cause irritation in contact with moist skin.

Eye damage/irritation: Causes serious eye irritation.

Respiratory/skin sensitization: Not classified.

Germ cell mutagenicity: Not considered mutagenic.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

STOT (single exposure): May cause respiratory irritation.

STOT (repeated exposure): Not classified.

Aspiration toxicity: Not classified.

Acute:

Ingestion Acute toxicity (Oral):

LD50, Rat: 490 mg/kg

Other Acute toxicity (Dermal):

LD50, Rabbit: 7,600 mg/kg

Carcinogen Category: None

ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

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Persistence/Degradability: No information available.

Mobility: No information available.

Environmental Fate: Avoid release to the environment; Collect spillage; Prevent entry into drains and waterways.

Bioaccumulation Potential: No information available.

Environmental Impact: No Data Available

DISPOSAL CONSIDERATIONS

General Information: Due to the high risk of contamination, recycling/recovery is not recommended. Dispose of contents/container by controlled incineration and in accordance with local/regional/national regulations.

Special Precautions for Land Fill: Contaminated packaging: Emptied container might retain product residues - Follow all warnings even after the container is emptied.

TRANSPORT INFORMATION**Road and Rail Transport**

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.

UN No:	2468
Class-primary	5.1 Oxidizing Agent
Packing Group:	II
Proper Shipping Name:	TRICHLOROISOCYANURIC ACID, DRY
Hazchem Code:	1WE

REGULATORY INFORMATION

HSNO Classifications: 5.1.1B, 6.1D(o), 6.3A, 8.3A, 9.1A

EPA Approval code: HSR001359

OTHER INFORMATION

End of SDS.