



Paramount Pools & Spas

a division of PoolQuip Limited

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If you have a Chemical Emergency phone 111 and ask for Fire
In case of Poisoning contact The National Poisons Centre on 0800 POISON (0800 764 766)
The most current version of this document is available online at www.poolquip.co.nz

MATERIAL SAFETY DATA SHEET (MSDS)

1.0 Product & Company Information

Revision Date: April 2011

Product Name: **Cyanuric Acid**

Other Names: Water Stabilizer, Chlorine Stabilizer, Isocyanuric Acid

Uses: Used as an intermediate for chlorinated bleaches

Distributor Details: As per above and any of our authorised retailers and distributors

2.0 Hazard Data

NOT Hazardous according to criteria of NOHSC/ASCC.

Risk Phrases: No data available.

Safety Phrases: S24/25 Avoid contact with skin and eyes.
S37 Wear suitable gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S28:CYACID After contact with skin, wash immediately with plenty of water.

ERMA New Zealand Approval Code: HSR007179

HSNO Hazard Classification: 6.4A

3.0 Composition

Chemical Name: Calcium Chloride
CAS Number: 108-80-5
Percentage Rating: >98%

4.0 First Aid Measures

Description of necessary measures according to routes of exposure.

Swallowed: Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical attention immediately.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Seek immediate medical attention.

Skin: Remove contaminated clothing. Flush affected area with plenty of water. Wash clothing before reuse. Seek medical attention.

Inhaled: Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Advice to Doctor: Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).

Aggravated medical: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

5.0 Fire Fighting Measures

Extinguishing Media: In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Hazards from Combustion Products	Non-combustible solid. Avoid generating dust. Incompatible with oxidizing agents, chlorine, ethanol, moist air, water and sources of ignition. When involved in a fire, this product may generate nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen and isocyanic acid gas.
Special Protective Precautions and Equipment for Fire Fighters	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.
Flammability Conditions	Product is a non-flammable solid.
Hazchem Code	N/A

6.0 Accidental Release Measures

Emergency Procedures	Caution, product may be slippery when spilt. Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Avoid contaminating waterways, drains, and sewers. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Methods and Materials for Containment and Clean Up	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled chemical-waste container and hold for safe disposal.

7.0 Handling & Storage

Precautions for Safe Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.
Conditions for Safe Storage (Including any compatibles)	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidising agents, chlorine, ethanol, moist air, water and sources of ignition. Protect from direct sunlight and moisture. This

product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Type Store in original packaging as approved by manufacturer.

8.0 Exposure Controls / Personal Protection

National Exposure Standards	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for inspirable dust) and 3mg/m ³ (for respirable dust).
Biological Limit Values	No information available on biological limit values for this product.
Engineering Controls	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	RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear impervious gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

9.0 Physical and Chemical Properties

Appearance	White Crystalline Powder.
Formula	C ₃ H ₃ N ₃ O ₃
Odour	Odourless
Vapour Pressure	Not applicable.
Vapour Density	4.4
Boiling Point	Not applicable.
Melting Point	>360°C deg C
Solubility in Water	0.3g/100mL
Specific Gravity	2.5 (Water = 1)
Flash Point	Not Applicable
pH	Approx. 4.5 ((20°C))
Rate of Solid Materials	No data available
Decomposition Temperature	320-360°C
Additional Information	Molecular Weight: 129.07g/mol.

10.0 Stability and Reactivity

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, direct sunlight, static discharges, generating dust, moisture and high temperatures.
Incompatible Materials	Incompatible with oxidizing agents, chlorine, ethanol, moist air, water and sources of ignition.
Hazardous Decomposition Products	When involved in a fire, this product may generate nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen and isocyanic acid gas
Hazardous Reactions	Hazardous polymerisation has not been reported.

11.0 Toxicological Information

Toxicity Data	Oral LD50 Rat : 7700mg/Kg Oral LD50 Mouse : 3400mg/Kg Dermal LD50 Rabbit : >5000mg/Kg Draize Test Eye : 500mg/24hr (Rabbit) : Mild Irritant Skin : Mild Irritant (Rabbit)
Health Effects – Acute	
Swallowed	No adverse effects expected, however large amounts may cause nausea and vomiting. May cause irritation of the digestive tract. The toxicological properties of this product have not been fully investigated.
Eye	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
Skin	Contact with skin may result in irritation.
Inhaled	Breathing in dust may result in respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

12.0 Ecological Information

Ecotoxicity	No data available
Persistence and Degradability	No information available on persistence and degradability for this product
Mobility	No information available on mobility for this product.
Environmental Fate (Exposure)	Avoid contaminating waterways, drains and sewers..
Bioaccumulative Potential	No information available on bioaccumulation for this product.

13.0 Disposal Considerations

Disposal	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of at an approved facility.
Special Precautions for Land Fill or Incineration	The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

14.0 Transport Information

Land and Sea Transport

UN Number	Not applicable
Shipping Name	Cyanuric Acid
Dangerous Goods Class	Not applicable
Packing Group	Not applicable
Hazchem Code	Not applicable

15.0 Regulatory Information

Classified as hazardous in accordance with Annex I European Directive 67/548/EEC and The Australian Safety and Compensation Council (ASCC) formerly known as NOHSC.

Poisons Schedule	5
EPG	N/A
AICS Name	1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE
NZ Toxic Substance	N
HSNO Hazard Classification	6.4A
ERMA Approval Code	HSR007179

16.0 Other Information

None