



Section 01 - Identification

Product Identifier	Stabilizer
Other Means of Identification	Chlorine stabilizer, I.C.A., Cyanuric acid, Tricarbimide.
Product Use and Restrictions on Use	Pool conditioner.
Initial Supplier Identifier	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Cyanuric Acid	108-80-5	85-100%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water and non-abrasive soap. Seek medical attention if irritation persists.
Eye Contact	DO NOT allow victim to rub eye(s). Let the eye(s) water naturally. Have victim move eye around in attempt to dislodge the particle/dust. If unsuccessful, flush with lukewarm, gently flowing water for 5 minutes or until the particle/dust is removed. If irritation persists, seek medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).
Ingestion	Have victim rinse mouth with water. If irritation or discomfort occurs, seek medical attention.
Additional Information	Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	Cyanuric acid decomposes above 320-330°C to produce explosive, corrosive and highly toxic isocyanic acid, which can decompose to ammonia and carbon dioxide. Nitrogen oxides, oxides of carbon and other irritating and/or toxic fumes and gases may be formed in a fire. The heat from a fire can cause a rapid build-up of pressure inside closed containers, which may cause explosive rupture.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective gear.
Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.
Environmental Precautions	Prevent material from entering sewers and waterways.
Methods and Materials for Containment and Cleaning Up	SMALL SPILLS: Contain spill with earth, sand or absorbent material which does not react with spilled material. Shovel into clean, dry, labelled containers and cover. Flush area with water. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 - Handling and Storage

Precautions for Safe Handling	This material is essentially non-toxic but decomposes above 320-300°C to form explosive, corrosive and highly toxic isocyanic acid gas. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
Conditions for Safe Storage	Store in a cool, ventilated area. Keep away from heat. Store away from incompatible materials. Keep containers closed when not in use and when empty.
Incompatibilities	Chlorine, trichloroisocyanuric acid, sodium hydroxide, strong oxidizing agents.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Isocyanuric Acid	WEELs	WEEL-TWA	10mg/m ³ (total) 5mg/m ³ (respirable)

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face	No specific requirement, but it is good practice to wear chemical safety goggles.
Hand Protection	No specific requirement, but it is good practice to prevent skin contact.
Skin and Body Protection	No specific requirement, but it is good practice to prevent skin contact. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	No specific guidelines are available. An approved respirator suitable for non-toxic dust may be adequate.
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Solid, crystals
Colour	White
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	4.8 (saturated water solution)
Melting Point/Freezing Point	Sublimes and decomposes at 320-330°C
Initial Boiling Point and Boiling Range	Decomposes
Flash Point	Not Combustible
Evaporation Rate	Not Applicable
Flammability	Non-flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Extremely low at room temperature
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Slightly soluble in water. Soluble in hot alcohols, pyridine, concentrated hydrochloric acid, concentrated sulfuric acid, aqueous alkali, N,N-dimethylformamide and dimethyl sulfoxide; slightly soluble in common organic solvents.
Partition Coefficient: n-octanol/water	Log P _{ow} = 0.61

Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	Can decompose to product explosive, corrosive and toxic isocyanic acid.
Specific Gravity (Water=1)	1.66-1.75
% Volatiles by Volume	Not Available
Formula	C ₃ H ₃ N ₃ O ₃
Molecular Weight	129.08

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable.
Possibility of Hazardous Reactions	Polymerization will not occur.
Conditions to Avoid	Temperatures above 300°C.
Incompatible Materials	Chlorine, trichloroisocyanuric acid, sodium hydroxide, strong oxidizing agents.
Hazardous Decomposition Products	None reported.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Isocyanuric Acid	3400mg/kg (mouse)	>5000mg/kg (rabbit)	>612mg/m ³ (rat)

Chronic Toxicity – Carcinogenicity

Component	IARC
Isocyanuric Acid	The carcinogenicity of this chemical has not been evaluated.

Skin Corrosion/Irritation	Non-irritant.
Ingestion	Not expected to be toxic.
Inhalation	Not expected to pose an inhalation hazard.
Serious Eye Damage/Irritation	Expected to cause no to very mild irritation.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not suspected of being mutagenic.
Reproductive Toxicity	Not suspected of causing reproductive toxicity.
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Based on animal studies, long-term ingestion of relatively high doses can result in the formation of crystals in the kidneys resulting in kidney injury.

Aspiration Hazard Not Available

Synergistic Materials Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Isocyanuric Acid	EC ₅₀ (Selenastrum capricornutum, 72hr): 620mg/L	LC ₅₀ (Lepomis macrochirus, 96hr): >1000mg/L	EC ₅₀ (Daphnia magna, 12d): 65.9mg/L
Biodegradability	Cyanuric acid biodegrades readily.		
Bioaccumulation	Product has low bioaccumulation potential.		
Mobility	Cyanuric acid is expected to have high mobility in soil.		
Other Adverse Effects	This product is considered low risk for environments.		

Section 13 – Disposal Considerations

Waste From Residues/Unused Products Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number Not Regulated

UN Proper Shipping Name Not Regulated

Transport Hazard Class(es) Not Regulated

Packaging Group Not Regulated

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

TDG

Other Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date

November 2, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

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If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

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