



# Safety Data Sheet

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## Section 01 Identification

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<b>Product Identifier</b>	Cyanuric Acid
<b>Other Means of Identification</b>	Isocyanuric acid; 1,3,5-triazinane-2,4,6-trione
<b>Product Use and Restrictions on Use</b>	Chlorine stabilizer, elastomer curative, whitening agent
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7  Phone: 800.387.7503 Fax: 888.281.8109 <a href="http://www.cleartech.ca">www.cleartech.ca</a>
<b>Prepared By</b>	ClearTech Industries Inc. technical writer
<b>24-Hour Emergency Phone</b>	306.664.2522

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## Section 02 Hazard Identification

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### GHS-Classification

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

### Hazards Not Otherwise Classified

Not available

### Supplemental Information

Not available

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## Section 03 Composition / Information on Ingredients

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### Ingredients:

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
1,3,5-triazinane-2,4,6-trione	Cyanuric acid	108-80-5	>99.0%

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## Section 04 First-Aid Measures

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### Description of necessary first-aid measures

<b>Inhalation</b>	Get medical advice / attention if you feel unwell or are concerned.
<b>Ingestion</b>	Get medical advice / attention if you feel unwell or are concerned.
<b>Skin contact</b>	Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin irritation occurs or if you feel unwell: Get medical advice / attention.
<b>Eye contact</b>	Gently brush product off face. Do not rub eyes. Let the eyes water naturally for a few minutes. Look right and left, then up and down. If particle / dust does not come out, cautiously rinse eye with lukewarm gently flowing water for 5 minutes or until particle / dust is removed, while holding the eyelids open. If eye irritation persists: Get medical advice / attention. Do not attempt to manually remove anything from the eyes.

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## Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause respiratory irritation.
<b>Ingestion</b>	May cause discomfort or nausea.
<b>Skin contact</b>	May cause transient irritation.
<b>Eye contact</b>	May cause eye irritation and redness.
<b>Further information</b>	For further information see Section 11 Toxicological Information.

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## **Section 05 Fire Fighting Measures**

<b>Suitable extinguishing media</b>	Extinguish fire using extinguishing agents suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Water jets are not recommended in fires involving chemicals.
<b>Specific hazards arising from the chemical</b>	In the event of a fire oxides of nitrogen, and isocyanate may be released. Thermal decomposition occurs at 320-370 °C.
<b>Special protective equipment for fire-fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

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## **Section 06 Accidental Release Measures**

<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area.
<b>Environmental Precautions</b>	Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.
<b>Methods and Materials for Containment and Cleaning Up</b>	Dry sweeping is not recommended. Pre-dampening the material or use of a vacuum is preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

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## **Section 07 Handling and Storage**

<b>Precautions for Safe Handling</b>	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. Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Protect label and keep it visible.
<b>Incompatibilities</b>	Ethanol and chlorine

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## **Section 08 Exposure Controls and Personal Protection**

### Exposure limits

There are no known exposure limits for this product.

### Engineering controls

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
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**Other** No specific recommendations beyond the required hygiene facilities at the place of work.

## Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

**Eye and face protection** Where there is potential eye or face exposure, safety glasses are recommended. Contact lenses are not recommended; they may contribute to severe eye injury.

**Hand and body protection** Where handling this product it is recommended that skin contact is avoided.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Thermal hazards** Not available

## Section 09 Physical and Chemical Properties

### Appearance

**Physical state** Crystalline granules or powder

**Colour** White

**Odour** Odourless

**Odour threshold** Not applicable

### Property

**pH** 4-5 (0.2% solution)

**Melting point / freezing point** ~330 °C

**Initial boiling point and boiling range** Decomposes

**Flash point** Not applicable

**Evaporation rate** Not available

**Flammability** Not flammable

**Upper flammable limit** Not available

**Lower flammable limit** Not available

**Vapour pressure** Negligible

**Vapour density** Not available

**Relative density** 0.80-0.85 g/cm<sup>3</sup>

**Solubility** 2 g/L @ 25 °C (water)

**Partition coefficient: n-octanol/water** -1.31 @ 25 °C

**Auto-ignition temperature** Not available

**Decomposition temperature** 320-370 °C

**Viscosity** Not applicable

**Specific gravity** Not applicable

**Formula** C<sub>3</sub>H<sub>3</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular weight** 129.07 g/mol

## Section 10 Stability and Reactivity

**Reactivity** May react with chlorine gas to form an explosive compound.

**Stability** This product is stable if stored according to the recommendations in Section 07.

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Cyanuric Acid  
ClearTech Industries Inc

<b>Possibility of hazardous reactions</b>	Hazardous polymerization is not known to occur.
<b>Conditions to avoid</b>	Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Ethanol and chlorine
<b>Hazardous decomposition products</b>	Thermal decomposition may produce oxides of nitrogen, and isocyanate . Thermal decomposition occurs at 320-370 °C.

## Section 11 Toxicological Information

### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Cyanuric acid	Oral	Rat	>5,000 mg/kg bw	
	Inhalation (dust)	Rat	>5.25 mg/L	4 hours
	Dermal	Rabbit	>5,000 mg/kg bw	

### Toxic Health Effect Summary

<b>Chemical characteristics</b>	No known effects
<b>Skin</b>	May cause transient irritation.
<b>Ingestion</b>	May cause discomfort or nausea. A study of 10 rats determined constipation, tiredness, abnormal brain function, and piloerection were caused in 2 rats. All affects subsided after 4 days. Weight loss was noted in 1 rat.
<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye contact</b>	May cause eye irritation and redness.
<b>Sensitization</b>	A study on mice indicated that that cyanuric acid causes mild sensitizing affects, but are below thresholds for classification.
<b>Mutagenicity</b>	This product and its components at their listed concentration have no known mutagenic effects.
<b>Carcinogenicity</b>	This product and its components at their listed concentration have no known carcinogenic effects.
<b>Reproductive toxicity</b>	This product and its components at their listed concentration have no known reproductive effects.
<b>Specific organ toxicity</b>	This product and its components at their listed concentration have no known effects on specific organs.
<b>Aspiration hazard</b>	Not available
<b>Synergistic materials</b>	Not available

## Section 12 Ecological Information

### Ecotoxicity

Component	Type	Species	Value	Exposure Time
Cyanuric acid	LC50	Fish (freshwater)	>1,000 mg/L	96 hours
	EC50	Invertebrates (freshwater)	>1,000 mg/L	48 hours
	EC10	Algae (marine)	76 mg/L	72 hours

**Biodegradability** The domestic substance list categorizes cyanuric acid as non-persistent.

<b>Bioaccumulation</b>	The domestic substance list categorizes cyanuric acid as non-bioaccumulative.
<b>Mobility</b>	This product is water soluble, is not predicted to adsorb to soil and may contaminate ground water.
<b>Other adverse effects</b>	Not available

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## Section 13 Disposal Considerations

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<b>Waste From Residues / Unused Products</b>	Dispose in accordance with all federal, provincial, and local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

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## Section 14 Transport Information

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<b>UN number</b>	Not available
<b>UN proper shipping name and description</b>	Not available
<b>Transport hazard class(es)</b>	Not available
<b>Packing group</b>	Not available
<b>Excepted quantities</b>	Not available
<b>Environmental hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
<b>Special precautions</b>	No special provisions
<b>Transport in bulk</b>	ERAP index: not available
<b>Additional information</b>	MARPOL 73/78 and IBC Code: This product is not listed in Chapter 17 of the IBC Code. Secure containers (full or empty) 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 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

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## Section 15 Regulatory Information.

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**NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

All components of this product appear on the domestic substance list.

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## Section 16 Other Information

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**Date of latest revision: May 08, 2020**

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / 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 buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

**Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

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

**References:**

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