



# Safety Data Sheet

## Section 01 - Identification

Product Identifier	VITA-D-CHLOR Tablets
Other Means of Identification	None
Product Use and Restrictions on Use	Dechlorination agent
Initial Supplier Identifier	ClearTech Industries Inc. 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
Ascorbic acid	50-81-7	75%	
Water	7732-18-5	25%	

## 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 if difficulty in breathing persists.
Skin Contact / Absorption	Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Eye Contact	Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.
Ingestion	Wash mouth out with water. Seek medical attention if symptoms develop.
Additional Information	Not Available.

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Water, dry chemical, carbon dioxide, alcohol or polymer foam.
<b>Unsuitable Extinguishing Media</b>	Not Available.
<b>Specific Hazards Arising From the Chemical</b>	Not Available.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available.

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
<b>Environmental Precautions</b>	Prevent material from entering sewers.
<b>Methods and Materials for Containment and Cleaning Up</b>	Vacuum or sweep up material and place into suitable disposal container.

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## Section 07 - Handling and Storage

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<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.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from direct sunlight and incompatible materials.
<b>Incompatibilities</b>	Acids, alkalis and oxidizing agents.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Ascorbic acid	Not Established		

### Engineering Control(s)

<b>Ventilation Requirements</b>	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.
<b>Other</b>	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### Protective Equipment

<b>Eyes/Face</b>	No specific requirements, but it is good practice to wear chemical safety glasses while handling product.
<b>Hand Protection</b>	No specific requirements, but it is good practice to prevent skin contact by wearing impervious gloves of chemical resistance.

<b>Skin and Body Protection</b>	No specific requirements, but it is good practice to prevent skin contact by wearing body suits, aprons and/or coveralls.  No special footwear is required other than what is mandated at place of work.
<b>Respiratory Protection</b>	Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.
<b>Thermal Hazards</b>	Not Available.

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## **Section 09 - Physical and Chemical Properties**

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### **Appearance**

<b>Physical State</b>	Solid, tablet
<b>Colour</b>	White
<b>Odour</b>	Citrus-like
<b>Odour Threshold</b>	Not Available

### **Property**

<b>pH</b>	2-3 (5% solution)
<b>Melting Point/Freezing Point</b>	190-192°C
<b>Initial Boiling Point and Boiling Range</b>	Not Available
<b>Flash Point</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Flammability</b>	Combustion of product may be possible at elevated temperatures.
<b>Upper Flammable Limit</b>	Not Available
<b>Lower Flammable Limit</b>	Not Available
<b>Vapour Pressure (mm Hg, 20°C)</b>	9.28 x 10 <sup>-11</sup> mmHg @ 25°C
<b>Vapour Density (Air=1)</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Solubility(ies)</b>	33g/mL @ 25°C
<b>Partition Coefficient: n-octanol/water</b>	Log K <sub>ow</sub> = -1.85
<b>Auto-ignition Temperature</b>	380°C
<b>Decomposition Temperature</b>	Not Available
<b>Viscosity</b>	Not Available
<b>Explosive Properties</b>	Not Available

<b>Specific Gravity (Water=1)</b>	1.65
<b>% Volatiles by Volume</b>	0
<b>Formula</b>	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
<b>Molecular Weight</b>	176.12

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## Section 10 - Stability and Reactivity

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<b>Reactivity</b>	Not Available
<b>Stability</b>	Stable to air when dry; aqueous solutions rapidly oxidized by air.
<b>Possibility of Hazardous Reactions</b>	Polymerization will not occur.
<b>Conditions to Avoid</b>	Not Available
<b>Incompatible Materials</b>	Acids, oxidizing materials, alkalis.
<b>Hazardous Decomposition Products</b>	When heated to decomposition it emits acrid smoke and irritating fumes.

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## Section 11 - Toxicological Information

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### Acute Toxicity

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Ascorbic acid (75%)	>2,666 mg/kg (rabbit)	Not Available	Not Available

### Chronic Toxicity – Carcinogenicity

<b>Component</b>	<b>IARC</b>
Ascorbic acid	Not considered a carcinogen.

<b>Skin Corrosion/Irritation</b>	Non-irritant.
<b>Ingestion</b>	Ingestion of large amounts could cause gastrointestinal disorders and diarrhea.
<b>Inhalation</b>	Inhalation of dust may irritate nose and throat. Symptoms of exposure may include coughing and chest pains.
<b>Serious Eye Damage/Irritation</b>	Dust may cause irritation.
<b>Respiratory or Skin Sensitization</b>	Not a respiratory or skin sensitizer.
<b>Germ Cell Mutagenicity</b>	Not a germ cell mutagen.
<b>Reproductive Toxicity</b>	It crosses the placenta in humans.
<b>STOT-Single Exposure</b>	Not Available
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Not Available

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Ascorbic acid	Not Available	LC <sub>50</sub> (Oncorhynchus mykiss, 96hr): 1020mg/L	Not Available
<b>Biodegradability</b>	Is moderately susceptible to biodegradation.		
<b>Bioaccumulation</b>	There is no evidence of bioaccumulation in animals or in man.		
<b>Mobility</b>	High mobility in soil.		
<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/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 14 – Transport Information

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<b>UN Number</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>Transport Hazard Class(es)</b>	Not Regulated
<b>Packaging Group</b>	Not Regulated
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
<b>Special Precautions</b>	Not Available
<b>Transport in Bulk</b>	Not Available

### TDG

<b>Other</b>	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.
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**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.

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## Section 15 – Regulatory Information

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**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.**

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## Section 16 – Other Information

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**Preparation Date** September 11, 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**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> 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) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

**ClearTech Industries Inc. - Locations**

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**24 Hour Emergency Number - All Locations – 1(306) 664-2522**