

### Section 01 Identification

Vita-D-Chlor pH Neutral **Product Identifier** 

Other Means of Identification Ascorbic acid, sodium salt; Vitamin C sodium salt

**Product Use and** Restrictions on Use Dechlorination

**Initial Supplier Identifier** ClearTech Industries Inc

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**Prepared By** ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 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.

#### **Hazards Not Otherwise Classified**

Not available

#### Supplemental Information

Not available

# Section 03 Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical name Common name(s) **CAS** number Concentration (w/w%)

Sodium ascorbate Vitamin C sodium salt 60-100% 134-03-2

### Section 04 First-Aid Measures

#### Description of necessary first-aid measures

**Inhalation** Get medical advice / attention if you feel unwell or are concerned.

Ingestion Get medical advice / attention if you feel unwell or are concerned.

Skin Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin

contact irritation occurs or if you feel unwell: Get medical advice / attention.

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Eye contact

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.

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

InhalationMay cause respiratory irritation.IngestionMay cause discomfort or nausea.

Skin contact Not available

**Eye contact** May cause eye irritation and redness.

**Further information** For further information see Section 11 Toxicological Information.

### **Section 05 Fire Fighting Measures**

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Not available

Specific hazards arising

from the chemical

In the event of a fire oxides of carbon may be released. Thermal decomposition occurs at

218 °C.

Special protective equipment

for fire-fighters

Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

clothing.

### Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment (See Section 08 Exposure Controls and

Personal Protection). Stay upwind, ventilate area.

Environmental Precautions Prevent material from

Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning

Up

Dry sweeping is not recommended. Pre-damping the material or use of a vacuum is preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

### Section 07 Handling and Storage

**Precautions for Safe** 

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Handling

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.

Conditions for Safe Storage 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.

**Incompatibilities** Strong bases, such as potassium hydroxide, and sodium hydroxide.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

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

#### **Exposure limits**

There are no known exposure limits for this product.

#### **Engineering controls**

Ventilation Requirements 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.

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 Fine white crystals

**Colour** Not available

**Odour** No odour

Odour threshold Not available

**Property** 

**pH** 6.5-7.5 @ 10%

Melting point / freezing point Not applicable (decomposes)

Initial boiling point and

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boiling range

Not available

Flash point Not applicable

**Evaporation rate** Not available

Flammability Not flammable

Upper flammable limit Not available

Lower flammable limit Not available

Vapour pressure Not available

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Vapour density Not available

Relative density q/cm<sup>3</sup>

Solubility 62 g /100 mL of water @ 20 °C

Partition coefficient: n-

octanol/water

Not available

Auto-ignition temperature Not available

218 °C Decomposition temperature

Not applicable Viscosity Specific gravity Not applicable **Formula** C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na

Molecular weight 198.11 g/mol

### Section 10 Stability and Reactivity

Reactivity Not available

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

Possibility of hazardous

reactions

Hazardous polymerization will not occur.

Conditions to avoid Avoid contact with incompatible materials. Do not heat.

Incompatible materials Strong bases, such as potassium hydroxide, and sodium hydroxide.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids,

hypochlorites and permanganates.

Hazardous decomposition

products

Thermal decomposition may produce oxides of carbon. Thermal decomposition occurs at

218 °C.

# Section 11 Toxicological Information

#### Acute Toxicity (LD50 values)

There is no available toxicity data for this product.

#### Toxic Health Effect Summary

Chemical Sodium salt of vitamin C. This product will be rapidly absorbed, metabolised and excreted following

characteristics oral intake. This substance is practically non-toxic.

Skin Not available

Ingestion May cause discomfort or nausea. Inhalation May cause respiratory irritation.

May cause eye irritation and redness. Eye irritation study on rabbits under OECD 405 was completed. Eye contact

Weak irritation observed after 24 hours, which was fully reversed within 48 hours.

Sensitization This product and its components at their listed concentration have no known sensitizing effects.

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Mutagenicity In some in vitro test systems including redox active substances, especially redox active metal ions,

> ascorbic acid and sodium ascorbate may act as pro-oxidants, thereby increasing the mutagenic potential of redox active metals or other compounds. These in vitro effects have not been confirmed in

in vivo studies. It was considered that it is unlikely that ascorbic acid or sodium ascorbate are

genotoxic.

This product and its components at their listed concentration have no known carcinogenic effects. Carcinogenicity

Reproductive toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Not available Aspiration hazard **Synergistic** 

Not available

# **Section 12 Ecological Information**

#### **Ecotoxicity**

materials

Component	Type	Species	Value	Exposure Time
Sodium ascorbate	LC50	Fish	1020 mg/L	96 hours
	EC50	aquatic invertebrates	74 mg/L	48 hours
	EC50	aquatic algea	74 mg/L	72 hours

Biodegradability The domestic substance list categorizes sodium ascorbate as non-persistent.

**Bioaccumulation** The domestic substance list categorizes sodium ascorbate as non-bioaccumulative.

Mobility This product is water soluble, and will not adsorb to soil and may contaminate ground

water.

Other adverse effects Not available

### **Section 13 Disposal Considerations**

Waste From Residues / **Unused Products** 

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging

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.

### Section 14 Transport Information

**UN** number Not available

UN proper shipping name and description

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Not available

Transport hazard class(es) Not available

Packing group Not available

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**Excepted quantities** Not available

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

Special precautions No special provisions

Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information 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.

### **Section 15 Regulatory Information.**

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.

#### Section 16 Other Information

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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 vour request.

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

#### References:

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

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