



Safety Data Sheet

Section 01 - Product And Company Identification

Product Identifier	CTI OdorClear CNS
Other Means of Identification	Calcium nitrate solution,
Product Use and Restrictions on Use	Wastewater odor neutralizer.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
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Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Irritation	Category 2

Physical Hazards

No known physical hazards

Warning

Hazards Statements

H302 – Harmful if swallowed.
H315 – Causes skin irritation
H319 – Causes serious eye irritation.

Pictograms



Precautionary Statements

P264 – Wash affected body parts thoroughly after handling.
 P270 – Do not eat, drink or smoke when using this product.
 P280 – Wear protective gloves, eye protection, and face protection.
 P301 + P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P302 + P352 – IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P330 – Rinse mouth.
 P332 + P313 – If skin irritation occurs: Get medical advice/attention.
 P337 + P313 – If eye irritation persists: Get medical advice/attention.
 P362 + P364 – Take off contaminated clothing and wash it before reuse.
 P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Calcium Nitrate Tetrahydrate	13477-34-4	40-70%	
Water and/or ingredients not classified as hazardous under the Hazardous Products Regulations		Balance	

Section 04 - First Aid Measures

Inhalation	Remove victim to fresh air. Give oxygen only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
Skin Contact / Absorption	Remove contaminated clothing under running water. Rinse skin with lukewarm, gently flowing water for at least 30 minutes. Seek immediate medical attention. Discard contaminated clothing, shoes and leather goods.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. Neutral saline solution may be used as soon as it is available. Seek immediate medical attention.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300mL of water to dilute material in stomach. If vomiting occurs naturally, repeat water administration. Seek immediate medical attention.
Additional Information	Not Available
Most Important Signs and Symptoms	Irritation to skin and mucus membranes upon contact.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Dry chemical powder, foam, carbon dioxide, water foam
Unsuitable Extinguishing Media	None known
Specific Hazards Arising From the Chemical	In the unlikely event that all the water is driven away from the product Calcium Nitrate is an oxidizer that will provide oxygen and promote combustion.

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. Flush with water to remove any residue.

Environmental Precautions Prevent material from entering sewers, waterways or confined spaces.

Methods and Materials for Containment and Cleaning Up Wear appropriate PPE during cleanup. Eliminate ignition sources, use clean non-sparking materials to collect and dispose of product. Make dams out of non-reactive materials such as sand or soil to contain the material. For large spills suck up the liquid using a pump, for small spills use non-reactive absorbent material and shovel into containers. Dispose of material in accordance with local regulations.

Section 07 - Handling and Storage

Precautions for Safe 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.

Conditions for Safe Storage Keep product tightly sealed in original containers. Store product in a cool, dry, well-ventilated area.

Incompatibilities Strong reducing agents, metals, organic materials and heat.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Calcium Nitrate Solution	Not Established		

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 Chemical goggles, full-face shield, or a full-face respirator should be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	Wear dust mask while handling this product
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Liquid
Colour	Colourless
Odour	Not Available
Odour Threshold	Not Available

Property

pH	5.5
Melting Point/Freezing Point	-35°C
Initial Boiling Point and Boiling Range	>100°C
Flash Point	Not Available
Evaporation Rate	Negligible
Flammability	May provide oxygen to surrounding fire in extreme circumstances
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	Not sensitive to mechanical impact or static discharge.

Specific Gravity (Water=1)	1.47
% Volatiles by Volume	Not Available
Formula	Ca(NO ₃) ₂
Molecular Weight	164.088

Section 10 - Stability and Reactivity

Reactivity	Oxidizing agent
Stability	Stable under normal conditions
Possibility of Hazardous Reactions	Will react with strong reducing agents and organic materials and generate heat.
Conditions to Avoid	Heat, incompatible materials
Incompatible Materials	Strong reducing agents, organic material, metals
Hazardous Decomposition Products	Oxygen, Nitrogen oxides

Section 11 - Toxicological Information

Acute Toxicity Estimate

Component	Oral LD₅₀	Dermal LD₅₀	Inhalation LC₅₀
CTI OdorClear CNS	960 mg/kg	Not Available	Not Available

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

Chronic Toxicity – Carcinogenicity

Component	IARC
Calcium Nitrate	Not Classified

Skin Corrosion/Irritation	Causes redness and irritation upon skin contact.
Ingestion	Ingestion can cause abdominal pain, blue lips or fingernails, blue skin, confusion, convulsions, dizziness, headache, nausea, unconsciousness.
Inhalation	Inhalation of vapour or droplets is expected cause cough or sore throat.
Serious Eye Damage/Irritation	Eye contact is expected to cause redness and irritation.
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Not Available
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
Calcium Nitrate	Not Available	Not Available	Not Available

Biodegradability Is expected to quickly break down

Bioaccumulation Will not bioaccumulate

Mobility Not expected to be mobile in soil.

Other Adverse Effects Not Available

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 None

UN Proper Shipping Name None

Transport Hazard Class(es) None

Packaging Group None

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

Special Precautions Not Available

Transport in Bulk Not Available

Additional Information	<u>Packing Group</u>	<u>Limited Quantity Index</u>
	II	1 Kg
	III	5 Kg

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 2018 March 6

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[®] 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
- 7) PAN

ClearTech Industries Inc. - Locations

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