



Safety Data Sheet

Section 01 - Identification

Product Identifier	Calcium Carbonate
Other Means of Identification	100, 200, 300, 300H, 3H, 3.5H, 4H, 5H, 6H
Product Use and Restrictions on Use	Mineral fillers, pigments, PVC extrusions.
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

STOT-Repeated Exposure	Category 1
Carcinogenicity	Category 1A

Physical Hazards

No known physical hazards.

Danger

Hazards Statements

H372 – Causes damage to lungs through prolonged or repeated exposure.
H350 – May cause cancer.

Pictograms



Precautionary Statements

P405 – Store locked up.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.
P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P260 – Do not breathe dust.
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Calcium Carbonate	471-34-1	92-98%	
Magnesium Carbonates	546-93-0	2-8%	
Crystalline Silica	14808-60-7	0.1-1%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, obtain medical advice.
Skin Contact / Absorption	No health effects expected. Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5 minutes. If irritation persists, obtain medical advice.
Eye Contact	DO NOT allow victim to rub eye(s). Let the eye(s) water naturally. Have victim move eye around to attempt to dislodge particle/dust. If it does not dislodge, flush with lukewarm, gently flowing water for 30 minutes or until dust/particle is removed. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).
Ingestion	If irritation or discomfort occur, obtain medical advice.
Additional Information	NOTE: This product contains an ingredient that may cause cancer. Take proper precautions to ensure your own safety before assisting others.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing media appropriate to surrounding fire.
Unsuitable Extinguishing Media	Not Available.
Specific Hazards Arising From the Chemical	Corrosive fumes of magnesium oxide, calcium oxide, carbon monoxide and carbon dioxide are formed in a fire. Closed containers may rupture violently when heated.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective.
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	Avoid release of product into waterways and/or sewers.
Methods and Materials for Containment and Cleaning Up	Use vacuum equipped with HEPA filter(s). Alternatively, dampen spilled material with water. Shovel into clean, dry labelled containers. Cover containers. Flush area with water.

Section 07 - Handling and Storage

Precautions for Safe Handling	Avoid generating dust. 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.
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Conditions for Safe Storage Store in a cool, dry, well ventilated place. Keep container tightly closed and away from acids.

Incompatibilities Acids, fluorine, magnesium, hydrogen, sodium N-chloror-4-toluenesulfonamide, isonitriles, ammonium salts.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Calcium carbonate	OSHA	PEL-TWA	15mg/m ³
Magnesium carbonate	OSHA	PEL-TWA	15mg/m ³
Quartz, crystalline silica	ACGIH	TLV-TWA	0.025mg/m ³
	OSHA	PEL-TWA	0.1mg/m ³

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Keep an eye wash fountain and safety shower available and in close proximity to work area.

Protective Equipment

Eyes/Face Chemical safety glasses with side shields should be worn while product is being handled.

Hand Protection Impervious gloves are not required other than what is mandated at place of work. Wash contaminated clothing dry thoroughly before reuse.

Skin and Body Protection Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing with soap and water, dry thoroughly before reuse.

No special footwear is required other than what is mandated at place of work.

Respiratory Protection Always wear an approved dust mask for levels below the TLV. Use NIOSH/MSHA approved respirators for silica bearing dust if airborne concentrations exceed the TLV.

Thermal Hazards Not Available.

Section 09 - Physical and Chemical Properties

Appearance

Physical State Solid, powder

Colour White

Odour Odourless

Odour Threshold Not Applicable

Property

pH 8-9.2 (aqueous suspension)

Melting Point/Freezing Point Decomposes at 870°C

Initial Boiling Point and Boiling Range	Not Applicable
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Not flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	Not Available
Relative Density	Not Available
Solubility(ies)	Practically insoluble in water. Insoluble in ethanol; soluble in ammonium chloride and dilute acids.
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Available
Decomposition Temperature	825-900°C
Viscosity	Not Available
Explosive Properties	When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs.
Specific Gravity (Water=1)	2.71
% Volatiles by Volume	Not Available
Formula	CaCO ₃
Molecular Weight	100.09

Section 10 - Stability and Reactivity

Reactivity	Not Available.
Stability	Product is stable.
Possibility of Hazardous Reactions	None reported.
Conditions to Avoid	No special requirements.
Incompatible Materials	Acids, fluorine, magnesium, hydrogen, sodium N-chloror-4-toluenesulfonamide, isonitriles, ammonium salts.
Hazardous Decomposition Products	Corrosive fumes of calcium oxide, carbon monoxide and carbon dioxide are formed in a fire.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Calcium Carbonate	5792 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
Quartz, crystalline silica	Group 1: Carcinogenic to humans.

Skin Corrosion/Irritation	Non-irritant.
Ingestion	Calcium carbonate is practically non-toxic by ingestion. If ingested in large quantities, may cause nausea, constipation and hypercalcemia, hemorrhage.
Inhalation	High concentrations of dust may cause coughing and mild, temporary irritation.
Serious Eye Damage/Irritation	Not expected to cause eye irritation except as a “foreign body”.
Respiratory or Skin Sensitization	Not Available.
Germ Cell Mutagenicity	Crystalline silica has been shown to cause mutagenic effects in human cells (in-vitro).
Reproductive Toxicity	Not known to cause reproductive toxicity.
STOT-Single Exposure	Not Available.
STOT-Repeated Exposure	Long term inhalation may cause silicosis, a progressive, disabling, and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects, and auto-immune disease. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.
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 carbonate	Not Available	LC ₅₀ (Gambusia affinis, 96hr): >56000mg/L	Not Available
Biodegradability	Not Available.		
Bioaccumulation	Not Available.		
Mobility	Not Available.		
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	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 September 8, 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[®] 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

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