



MATERIAL SAFETY DATA SHEET

ClearFloc CP1065

Section 01 - Chemical And Product And Company Information

Product Identifier ClearFloc CP1065

Product Use Cationic flocculant or coagulant aid in mining, municipal, wastewater and industrial water treatment.

Supplier Name..... ClearTech Industries Inc.
2302 Hanselman Avenue
Saskatoon, SK. Canada
S7L 5Z3

Prepared By..... ClearTech Industries Inc. Technical Department
Phone: (306)664-2522

Preparation Date..... September 21, 2009

24-Hour Emergency Phone..... 306-664-2522

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients..... Cationic water-soluble polymer.

CAS Number..... Not applicable

Synonym (s)..... None

Section 03 - Hazard Identification

Inhalation..... Mildly irritating if breathing in dusts created.

Skin Contact / Absorption..... May cause some mild irritation including redness and itching.

Eye Contact..... May cause mild irritation including some stinging and redness.

Ingestion..... Ingesting small amounts is not likely to cause serious effects.



Exposure Limits..... Not available

Section 04 - First Aid Measures

Inhalation..... Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention if problems persist.

Skin Contact / Absorption..... Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact..... Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.

Ingestion..... No hazards which require special first aid measures are expected if small amounts are ingested.

Additional Information..... Not available

Section 05 - Fire Fighting

Conditions of Flammability..... Not available

Means of Extinction..... Use appropriate extinguishing media for material causing fire. All are suitable (dry chemical, foam, carbon dioxide, water, water spray).

Flash Point..... Not available

Auto-ignition Temperature..... Not available

Upper Flammable Limit Not available

Lower Flammable Limit..... Not available

Hazardous Combustible Products.... Thermal decomposition may produce oxides of nitrogen and carbon.

Special Fire Fighting Procedures..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing.



Explosion Hazards..... Not available

Section 06 - Accidental Release Measures

Leak / Spill..... Wear appropriate personal protective equipment. Ventilate area. Prevent material from entering sewers. Remove spills promptly by sweeping or vacuuming as they may make floors slippery. Spilled material that comes in contact with water will create very slippery conditions. Trace amounts can be flushed away with water.

Deactivating Materials..... Not available

Section 07 - Handling and Storage

Handling Procedures..... 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. Spilled material that comes in contact with water will create very slippery conditions.

Storage Requirements..... Store in closed containers at temperatures 0-35°C.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

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

Respiratory..... Dust safety masks are recommended where concentration of total dust is more than 10 mg/m³.

Gloves..... Impervious gloves of chemically resistant material (rubber or PVC) should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Clothing..... Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

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



Engineering Controls

- 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.

Section 09 - Physical and Chemical Properties

- Physical State**..... Solid
- Odor and Appearance**..... Odorless, white granules
- Odor Threshold**..... Not applicable
- Specific Gravity (Water=1)**..... Not available
- Vapor Pressure (mm Hg, 20°C)**..... Not applicable
- Vapor Density (Air=1)**..... Not available
- Evaporation Rate**..... Not available
- Boiling Point**..... Not applicable
- Freeze/Melting Point**..... Not applicable
- pH**..... 4-9 at 5g/L
- Water/Oil Distribution Coefficient**..... Not available
- Bulk Density**..... 0.80g/cm³
- % Volatiles by Volume**..... Not available
- Solubility in Water**..... Completely miscible
- Molecular Formula**..... Not available
- Molecular Weight**..... Not available

Section 10 - Stability and Reactivity

- Stability**..... Product is stable under normal conditions.



Incompatibility..... Oxidizing agents may cause exothermic reactions.

Hazardous Products of Decomposition.... Oxides of nitrogen and carbon.

Polymerization..... Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Irritancy..... Mild irritant by inhalation.

Sensitization..... The results of testing on guinea pigs showed this material to be non-sensitizing.

Chronic/Acute Effects..... Acute testing showed material to be non-toxic, even at high levels, to rabbits. Chronic toxicity testing on rats and dogs showed no adverse health effects during a two year study.

Synergistic Materials..... Not available

Animal Toxicity Data..... LD₅₀(oral, rat): > 5000mg/kg

Carcinogenicity..... Not available

Reproductive Toxicity..... Not available

Teratogenicity..... Not available

Mutagenicity..... Not available

Section 12 - Ecological Information

Fish Toxicity..... LC₅₀(Danio rerio, 96 hr): > 100mg/L
EC₅₀(Daphnia magna, 48 hr): > 100mg/L

Biodegradability..... Not readily biodegradable

Environmental Effects..... The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics.

Section 13 - Disposal Consideration

Waste Disposal..... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.



Section 14 - Transportation Information

TDG Classification

Class..... Not regulated

Group..... Not regulated

PIN Number..... Not regulated

Other..... Secure containers (full and/or empty) with suitable hold down devices during shipment.

Section 15 - Regulatory Information

WHMIS Classification.....Not a controlled product

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

NSF Certification.....Product is certified under NSF/ANSI Standard 60 for coagulation and flocculation at a maximum dosage of 1mg/L.

Section 16 - Other Information

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 / MSDS 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 Material 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 or technical service department.



ClearTech Industries Inc. - Locations

Corporate Head Office: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3
Phone: 306-664-2522
Fax: 306-665-6216

www.ClearTech.ca

Location	Address	Postal Code	Phone Number	Fax Number
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	604-272-4000	604-272-4596
Calgary, AB.	5516E - 40 th St. S.E.	T2C 2A1	403-279-1096	403-236-0989
Edmonton, AB.	11750 - 180 th Street	T5S 1N7	780-452-6000	780-452-4600
Saskatoon, SK.	2302 Hanselman Avenue	S7L 5Z3	306-933-0177	306-933-3282
Regina, SK.	555 Henderson Drive	S42 5X2	306-721-7737	306-721-8611
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	204-987-9777	204-987-9770
Mississauga, ON.	7480 Bath Road	L4T 1L2	905-612-0566	905-612-0575

24 Hour Emergency Number - All Locations - 306-664-2522