



Safety Data Sheet

Section 01 Identification

Product Identifier	ClearFloc CP Series ClearFloc CP0165 ClearFloc CP0360 ClearFloc CP1065 ClearFloc CP2070 ClearFloc CP4070 ClearFloc CP4080 ClearFloc CP5460 ClearFloc CP5470 ClearFloc CP5550 ClearFloc CP5560 ClearFloc CP6070 ClearFloc CP6072 ClearFloc CP8070 ClearFloc CP8072
Other Means of Identification	Not available
Product Use and Restrictions on Use	Cationic flocculant or coagulant aid in mining, municipal, wastewater and industrial water treatment.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7 Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca
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

Ingredients:

The ingredients in this product are not classified as hazardous under the Hazardous Products Regulations

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 contact** If skin irritation occurs or if you feel unwell: Get medical advice / attention.
- 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

- Inhalation** May cause respiratory irritation.
- Ingestion** May cause discomfort or nausea.
- Skin contact** May cause transient irritation or dryness.
- 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** Water jets are not recommended in fires involving chemicals.
- Specific hazards arising from the chemical** In the event of a fire oxides of carbon and nitrogen, and hydrogen chloride may be released. Contact with water will render surfaces extremely slippery.
- Special protective equipment for fire-fighters** Wear NIOSH-approved self-contained breathing apparatus and 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 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 recommended. Shovel into clean, dry, labeled containers and cover. Vacuum any remaining powder, avoid the use of water, if possible

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.

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.

Never return contaminated material to its original container.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, 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

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

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 Granular solid

Colour White

Odour None

Odour threshold Not applicable

Property

pH 2.5-4.5 @ 5 g/L

Melting point / freezing point Not available

Initial boiling point and boiling range Not available

Flash point Not applicable

Evaporation rate Not available

Flammability Non-flammable

Upper flammable limit Not available

Lower flammable limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0.6-0.9 g/cm ³
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable
Specific gravity	Not applicable
Particle characteristics	Particle size: Not available Particle shape: Not available
Formula	Not available
Molecular weight	Not available

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 is not known to occur.
Conditions to avoid	Avoid contact with incompatible materials. Do not heat.
Incompatible materials	Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids, hypochlorites and permanganates.
Hazardous decomposition products	Thermal decomposition may produce oxides of carbon and nitrogen, and hydrogen chloride.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Acute toxicity estimate	Oral	Rat	>5000 mg/kg bw	
	Dermal	Rat	>5000 mg/kg bw	

Toxic Health Effect Summary

Chemical characteristics	No known effects
Skin	May cause transient irritation or dryness.
Ingestion	May cause discomfort or nausea.
Inhalation	May cause respiratory irritation.
Eye contact	Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival affects similar to those with all granular materials have on conjunctivae.
Sensitization	The results of testing on guinea pigs showed this material to be non-sensitizing.
Mutagenicity	This product and its components at their listed concentration have no known mutagenic effects.

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Carcinogenicity	This product and its components at their listed concentration have no known carcinogenic effects.
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.
Aspiration hazard	Not available
Synergistic materials	Not available

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
Acute toxicity estimate	LC50	Danio rerio	5-10 mg/L	96 hours
	EC50	Daphnia magna	20-50 mg/L	48 hours

Biodegradability The domestic substance list categorizes all of the components of this product as non-persistent.

Bioaccumulation The domestic substance list categorizes all of the components of this product as non-bioaccumulative.

Mobility This product is water soluble, but is expected to adsorb to soil and is not expected to 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 This product does not meet the definition of dangerous goods per Part 2 of Transport of Dangerous Goods Regulations

UN proper shipping name and description Not available

Transport hazard class(es) Not available

Packing group Not available

Excepted quantities Not available

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

Special precautions No special precautions

Transport in bulk ERAP index: not available

Additional information MARPOL 73/78 and IBC Code:
This product is not listed in Chapter 17 of the IBC Code.
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

Date of latest revision: April 12, 2023

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 your request.

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

References:

- 1) *NIOSH Pocket Guide to Chemical Hazards*; U.S. Department of Health and Human Services, <https://www.cdc.gov/niosh/npg/default.html>
- 2) *WorkSafe BC E-Limit*; Workers' Compensation Board of British Columbia, <https://elimit.online.worksafebc.com/>
- 3) *ECHA - Registered Substance Dossier*; European Chemicals Agency, <https://echa.europa.eu/information-on-chemicals/registered-substances>
- 4) *Transportation of Dangerous Goods Regulations*; Transport Canada, <https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html>
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) *Seventh revised edition*
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide