



Safety Data Sheet

Section 01 - Identification

Product Identifier	ClearFloc BL4600
Other Means of Identification	None
Product Use and Restrictions on Use	Cationic blended flocculant in mining, municipal, wastewater and industrial water treatment.
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

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Cationic water-soluble polymer	Not Available		

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove victim to fresh air. Seek medical attention if symptoms persist.
Skin Contact / Absorption	Remove contaminated clothing. Rinse skin with soap and water. Seek medical attention if irritation occurs or persists.
Eye Contact	Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of the eye tissue. Seek medical attention if irritation persists.
Ingestion	No adverse effects are expected. If you feel unwell or concerned, seek medical attention.
Additional Information	Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	Not Available

Specific Hazards Arising From the Chemical Thermal decomposition may produce hydrogen chloride gas and oxides of nitrogen and carbon.

Special Protective Equipment and Precautions for Fire-Fighters Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

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 Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up 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.

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 Store at temperatures 0-35°C and ensure containers are closed when product is not in use. Avoid contact with water. Product shelf life expected to be 24 months when storage requirements are followed.

Incompatibilities Oxidizers.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
ClearFloc BL4600	Not Available		

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 safety goggles should be worn while product is being handled.

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

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

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

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

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Solid, granules

Colour White

Odour Odourless

Odour Threshold Not Available

Property

pH 2.5-4.5 @ 5g/L

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling Range Not Available

Flash Point Does not flash

Evaporation Rate Not Available

Flammability Non-flammable

Upper Flammable Limit Not Available

Lower Flammable Limit Not Available

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) Not Available

Relative Density ~0.80 g/cm³

Solubility(ies) Completely miscible

Partition Coefficient: n-octanol/water Not Available

Auto-ignition Temperature Does not ignite

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Available

Specific Gravity (Water=1) Not Available

% Volatiles by Volume Not Available

Formula Not Available

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Stable under normal conditions.

Possibility of Hazardous Reactions Polymerization will not occur.

Conditions to Avoid Not Available

Incompatible Materials Oxidizing agents may cause exothermic reactions.

Hazardous Decomposition Products Oxides of nitrogen and carbon, hydrogen chloride gas.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
ClearFloc BL4600	>5000mg/kg (rat)	Not Available	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
ClearFloc BL4600	Not Available

Skin Corrosion/Irritation May cause some mild irritation including redness and itching.

Ingestion No adverse effects expected if ingested.

Inhalation Inhalation of dusts may be mildly irritating.

Serious Eye Damage/Irritation May cause mild irritation including some stinging and redness.

Respiratory or Skin Sensitization Non-sensitizing.

Germ Cell Mutagenicity Not Available

Reproductive Toxicity Not Available

STOT-Single Exposure No adverse health effects expected.

STOT-Repeated Exposure No adverse health effects expected.

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
ClearFloc BL4600	Not Available	LC ₅₀ (Danio rerio, 96hr): 5-10mg/L	EC ₅₀ (Daphnia magna, 48hr): 20-50mg/L

Biodegradability Not readily biodegradable.

Bioaccumulation	Product does not bioaccumulate.
Mobility	Not Available
Other Adverse Effects	The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics. Degradation products are non-toxic to aquatic organisms and present no environmental danger.

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 October 16, 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 (CADC) 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

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

www.cleartech.ca

24 Hour Emergency Number - All Locations – 1(306) 664-2522