



Safety Data Sheet

Section 01 - Identification

Product Identifier	ClearFloc AP0380S
Other Means of Identification	None
Product Use and Restrictions on Use	Anionic flocculant in mining, mineral processing, and industrial applications.
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
Anionic water-soluble polymer in emulsion	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.
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Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	Decomposition of product may produce hydrogen chloride gas, nitrogen oxides and carbon oxides.
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	Soak up spills with inert absorbent material and scoop up into closed containers for disposal. Flush with waer to remove any residue.

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. Keep away from heat and sources of ignition. Periodic agitation of the product during storage will help keep the product full homogenized and ensure consistent performance. Freezing will affect the physical condition and may damage the material. Product shelf life expected to be 6 months storage requirements are followed.
Incompatibilities	Water and oxidizers.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
ClearFloc AP0380S	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	No specific requirement, but it is good practice to prevent skin contact by wearing impervious gloves of chemical resistance.

Skin and Body Protection	No specific requirement, but it is good practice to prevent skin contact by wearing body suits, aprons and/or coveralls. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	Normally not needed however, 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	5-9 @ 5g/L
Melting Point/Freezing Point	>150°C
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	0.6 – 0.9 g/ml
Solubility(ies)	Soluble in water
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	Addition of water results in gelling. Contact with oxidizers may cause exothermic reactions.
Hazardous Decomposition Products	Oxides of nitrogen and carbon, and hydrogen cyanide may be produced.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD₅₀	Dermal LD₅₀	Inhalation LC₅₀
ClearFloc AP0380S	>5000mg/kg (rat)	Not Available	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
ClearFloc AP0380S	Not Available

Skin Corrosion/Irritation	May cause irritation with prolonged contact.
Ingestion	No adverse effects expected if ingested.
Inhalation	No adverse effects expected.
Serious Eye Damage/Irritation	May cause irritation with prolonged contact.
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	Prolonged skin contact may defat the skin and produce dermatitis.
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
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ClearFloc AP0380S

Not Available

LC₅₀(Danio rerio, 96hr):
>100mg/L

EC₅₀(Daphnia magna, 48hr):
>100mg/L

Biodegradability	Polymer degrades at pH>6 due to hydrolysis to more than 70% in approximately 28 days.
Bioaccumulation	Not Available
Mobility	Not Available
Other Adverse Effects	Effects on this product on aquatic organisms are significantly mitigated due to dissolved organic carbon in the aquatic environment. Hydrolysis products are not harmful to aquatic organisms.

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 2017 October 24

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

ClearTech Industries Inc. - Locations

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