



Safety Data Sheet

Section 01 - Identification

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|--------------------------------------------|-------------------------------------------------------------------------------------------|
| Product Identifier | ClearFloc AP1060 |
| Other Means of Identification | Not Available. |
| Product Use and Restrictions on Use | Anionic flocculant or coagulant aid in mining, 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 Department Phone: 1 (800) 387-7503 |
| 24-Hour Emergency Phone | Phone: 1 (306) 664 – 2522 Alternative Phone: 1 (800) 387-7503 |

Section 02 - Hazard Identification

GHS-Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Section 03 - Composition / Information on Ingredients

| Chemical Name | CAS Number | Weight % | Unique Identifiers |
|-------------------------------|-------------------|-----------------|---------------------------|
| Anionic water soluble polymer | Not Applicable | Not Available | None |



Common Name and Synonyms None

Section 04 - First Aid Measures

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|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention. |
| Skin Contact / Absorption | Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists. |
| Eye Contact | Contact lenses should never be worn when working with this product. Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention. |
| Ingestion | Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention if ingested. |
| Additional Information | Aqueous solutions or powders that become wet render surfaces extremely slippery. |

Section 05 - Fire Fighting Measures

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|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Use appropriate extinguishing media for material causing fire. All are suitable (dry chemical, foam, carbon dioxide, water, water spray) |
| Unsuitable Extinguishing Media | Not Available |
| Specific Hazards During Fire Fighting | Thermal decomposition may produce oxides of nitrogen and carbon. |
| Special Protective Equipment for Fire-Fighters | Wear NIOSH-approved self-contained breathing apparatus and protective clothing. |
| Further Information | Aqueous solutions or powders that become wet render surfaces extremely slippery |

Section 06 - Accidental Release Measures

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|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. Prevent material from entering sewers. Flush with water to remove any residue. Spilled material that comes in contact with water will create very slippery conditions. |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Environmental Precautions Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces 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. Spilled material that comes in contact with water will create very slippery conditions. Do not breathe dust.

Conditions for Safe Storage Store in closed containers inside a building at temperatures 0°C to 35°C. Avoid contact with water. Product shelf life expected to be 24 months when storage requirements are followed.

Incompatibilities Oxidizing agents may cause exothermic reactions.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

| Component | Regulation | Type of Listing | Value |
|-----------|---------------|-----------------|---------------|
| Mixture | Not Available | Not Available | 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 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.



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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand Protection | Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. |
| Skin and Body Protection | Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. 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 10 mg/m ³ . |
| Thermal Hazards | Not Available. |

Section 09 - Physical and Chemical Properties

Appearance

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|------------------------|----------------|
| Physical State | Solid |
| Colour | White granules |
| Odour | Odourless |
| Odour Threshold | Not Applicable |

Property

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|------------------------------------------------|----------------|
| pH | 6-8 @ 5g/L |
| Melting Point/Freezing Point | Not Applicable |
| Initial Boiling Point and Boiling Range | Not Applicable |
| Flash Point | Not Applicable |
| Evaporation Rate | Not Applicable |
| Flammability | Non-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 |
| Bulk Density | ~0.6 -0.9 g/cm ³ |
| Solubility(ies) | Completely miscible |
| Partition Coefficient: n-octanol/water | Not Available |
| Auto-ignition Temperature | Not Applicable |
| Decomposition Temperature | Not Available |
| Viscosity | Not Available |
| Explosive Properties | Not Available |
| Specific Gravity (Water=1) | Not Applicable |
| % Volatiles by Volume | Not Available |
| Formula | Not Available |
| Molecular Weight | Not Available |

Section 10 - Stability and Reactivity

| | |
|-------------------------------------------|-------------------------------------------------------------------|
| Reactivity | Not Available |
| Stability | Product is stable under normal conditions. |
| Possibility of Hazardous Reactions | Hazardous polymerization does not occur. |
| Conditions to Avoid | Not Available |
| Incompatible Materials | Oxidizing agents may cause exothermic reactions. |
| Hazardous Decomposition Products | Thermal decomposition may produce: Oxides of nitrogen and carbon. |



Section 11 - Toxicological Information

Acute Toxicity

| Component | Oral LD ₅₀ | Dermal LD ₅₀ | LC ₅₀ |
|-----------|------------------------------------------|-----------------------------------------------|------------------|
| Mixture | LD ₅₀ (oral, rat): >5000mg/kg | LD ₅₀ (dermal, rabbit): >5000mg/kg | Not Available |

Chronic Toxicity – Carcinogenicity

| Component | IARC |
|-----------|---------------|
| Mixture | Not Available |

Skin Corrosion/Irritation Not irritating.

Ingestion Not Available.

Inhalation This product is not expected to be toxic by inhalation.

Serious Eye Damage/Irritation Not irritating.

Respiratory or Skin Sensitization Not irritating.

Germ Cell Mutagenicity Not Available

Reproductive Toxicity Not Available

STOT-Single Exposure Not Available

STOT-Repeated Exposure Not Available

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 |
|------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
| Mixture | IC ₅₀ (Scenedesmus subspicatus, 72hr): >100mg/L [OECD 201] | LC ₅₀ (Danio rerio, 96hr): >100mg/L [OECD 203] | LC ₅₀ (Daphnia magna, 48hr): >100mg/L [OECD 202] |
| Biodegradability | Not readily biodegradable. | | |
| Bioaccumulation | Does not bioaccumulate. | | |
| Mobility | Not Available | | |
| Other Adverse Effects | Not Available | | |

Section 13 - Disposal Considerations

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|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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

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|-----------------------------------|---------------|
| UN Number | Not Regulated |
| UN Proper Shipping Name | Not Regulated |
| Transport Hazard Class(es) | Not Regulated |
| Packaging Group | Not Regulated |
| Environmental Hazards | Not Available |
| 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.

PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 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 December 29, 2016

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 or technical service department.

Abbreviations

| | |
|-------|-----------------------------------------------------------|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIHA | American Industrial Hygiene Association |
| CAS | Chemical Abstract Service |
| DSL | Domestic Substance List |
| EC | Effective Concentration |
| IARC | International Agency for Research on Cancer |
| IC | Inhibitory Concentration |
| IDHL | International Digest of Health Legislation |
| LC | Lethal Concentration |
| LD | Lethal Dosage |
| MSHA | Mine Safety and Health Administration |
| NIOSH | National Institute for Occupational Safety and Health |
| NFPA | National Fire Protection Association |
| NTP | National Toxicology Program (U.S.A.) |



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|-------|-----------------------------------------------------------|
| OECD | The Organization for Economic Cooperation and Development |
| OSHA | Occupational Safety and Health Administration (U.S.A.) |
| PEL | Permissible Exposure Limit |
| PPE | Personal Protection Equipment |
| STEL | Short-term Exposure Limit |
| STOT | Specific Target Organ Systemic Toxicity |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| TWA | Time Weighted Average |
| UN | United Nations |
| WEEL | Workplace Environmental Exposure Level |
| WHMIS | Workplace Hazardous Materials Information System |

References

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7
Phone: 1(306) 664 – 2522
Alternative Phone: 1(800) 387-7503
Fax: 1(888) 281-8109

www.ClearTech.ca

| Location | Address | Postal Code | Phone Number |
|----------------------|-----------------------------------|-------------|----------------|
| Richmond, B.C. | 12431 Horseshoe Way | V7A 4X6 | 1(800)387-7503 |
| Port Coquitlam, B.C. | 223 Kingsway Avenue | V3C 1S9 | 1(800)387-7503 |
| Calgary, AB. | 5516E - 40 th St. S.E. | T2C 2A1 | 1(800)387-7503 |
| Edmonton, AB. | 12020 - 142 nd Street | T5L 2G8 | 1(800)387-7503 |
| Saskatoon, SK. | North Corman Industrial Park | S7K 1V7 | 1(800)387-7503 |
| Regina, SK. | 555 Henderson Drive | S42 5X2 | 1(800)387-7503 |
| Winnipeg, MB. | 340 Saulteaux Crescent | R3J 3T2 | 1(800)387-7503 |
| Mississauga, ON. | 355 Admiral Blvd Unit #1 | L5T 2N1 | 1(800)387-7503 |

24 Hour Emergency Number - All Locations – 1(306) 664-2522
Alternative - 1(800) 387-7503

End of Safety Data Sheet

