

# Safety Data Sheet

# **Section 01 - Product And Company Identification**

Product Identifier ClearPAC Plus

Other Means of Identification Poly aluminum chloride

**Product Use and Restrictions on** 

Use

Drinking water treatment.

Initial Supplier Identifier ClearTech Industries Inc.

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## Section 02 - Hazard Identification

## **GHS-Classification**

Serious Eye Damage/Irritation Category 1

**Physical Hazards** 

Corrosive to Metals Category 1

#### **Danger**

#### **Hazards Statements**

H318 – Causes serious eye damage. H290 – May be corrosive to metals.

## **Pictograms**



## **Precautionary Statements**

P234 – Keep only in original container.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P390 – Absorb spillage to prevent material damage.

# Section 03 - Composition / Information on Ingredients

**Chemical Name CAS Number** Weight % **Unique Identifiers** 

Polyhydroxyl aluminum chloride 1327-41-9 25-40%

## Section 04 - First Aid Measures

If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if Inhalation

breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.

Remove contaminated clothing. Rinse skin with lukewarm, gently flowing water. Seek **Skin Contact / Absorption** 

medical attention if irritation occurs or persists.

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 30 **Eye Contact** 

minutes or until the chemical is removed, while holding the eyelid(s) open to ensure

complete irrigation of the eye tissue. Seek immediate medical attention.

Do not induce vomiting. If vomiting occurs naturally, lean victim forward to prevent Ingestion

breathing in vomitus. Give large amounts of water. Do not give anything by mouth to an

unconscious or convulsing person. Seek immediate medical attention.

**Additional Information** Not Available

# Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Use extinguishing agents suitable for surrounding fire.

**Unsuitable Extinguishing Media** Not Available

Chemical

**Specific Hazards Arising From the** Products of combustion include hydrochloric acid fumes.

**Precautions for Fire-Fighters** 

**Special Protective Equipment and** 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. Flush with water to remove any residue.

**Environmental Precautions** Prevent material from entering sewers.

**Methods and Materials for** 

Containment and Cleaning Up

Neutralize solution with soda ash, lime or limestone. Note that carbon dioxide may form

as a result.

# Section 07 - Handling and Storage

Use proper equipment for lifting and transporting all containers. Use sensible industrial **Precautions for Safe Handling** 

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

**Conditions for Safe Storage** Ideal storage temperatures should be 10-35°C in a well-ventilated area. Store away from

incompatible materials. Keep storage area separate from populated work areas. Do not

store in containers made of aluminum, magnesium, zinc, or copper.

Strong alkalis, strong acids, oxidizers, zinc, aluminum, and hydro-reactive materials. Incompatibilities

# **Section 08 - Exposure Controls and Personal Protection**

Exposure Limit(s)

Component Regulation Type of Listing Value

ClearPAC Plus 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 being handled. Contact lenses should not be worn as they may contribute to

severe eye injury.

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 suits, aprons, and/or coveralls of chemical resistant material should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

**Respiratory Protection** Respiratory protection is not normally required. If use creates vapours, mists, or aerosols,

then a NIOSH-approved respirator with a dust/mist cartridge is recommended.

Thermal Hazards Not Available.

# **Section 09 - Physical and Chemical Properties**

**Appearance** 

Physical State Liquid

**Colour** Clear

**Odour** Odourless

Odour Threshold Not Available

**Property** 

**pH** 2.2-2.8

Melting Point/Freezing Point ~ -20°C

**Initial Boiling Point and Boiling** 

Range

Decomposes at 90°C

Flash Point Not Applicable

Evaporation Rate Not Available

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

Relative Density Not Available

Solubility(ies) Hydrolyses

Partition Coefficient: n-

octanol/water

>1

Auto-ignition Temperature Not Applicable

**Decomposition Temperature** Not Available

Viscosity Not Available

Explosive Properties None

Specific Gravity (Water=1) 1.22-1.26

% Volatiles by Volume Not Available

Formula Complex mixture

Molecular Weight Not Applicable. Mixture.

# Section 10 - Stability and Reactivity

Reactivity Not Available

**Stability** Normally stable.

**Possibility of Hazardous** 

Reactions

Polymerization will not occur.

Conditions to Avoid Not Available

Incompatible Materials Avoid contact with strong alkalis, strong acids, oxidizers, zinc, aluminum, and hydro-reactive

materials.

**Hazardous Decomposition** 

**Products** 

May liberate Sulphur, aluminum oxides, hydrogen chloride, and chlorine when boiled to

dryness or heated above 200°C.

# Section 11 - Toxicological Information

#### **Acute Toxicity**

Component Oral  $LD_{50}$  Dermal  $LD_{50}$  Inhalation  $LC_{50}$ 

ClearPAC Plus >5000mg/kg (rat) Not Available Not Available

## <u>Chronic Toxicity – Carcinogenicity</u>

Component IARC

ClearPAC Plus Not considered carcinogenic to humans.

Skin Corrosion/Irritation Direct contact can cause irritation and possible corrosive burns.

Ingestion Ingestion can cause corrosive burns to mouth, throat and esophagus.

Irritation of the respiratory tract may result from mist exposure. Inhalation

Serious Eye Damage/Irritation Corrosive to the eyes.

Not considered a respiratory or skin sensitizer. Respiratory or Skin Sensitization

**Germ Cell Mutagenicity** Not Available Reproductive Toxicity Not Available Not Available **STOT-Single Exposure** 

**STOT-Repeated Exposure** Repeated and prolonged exposure of the skin to low concentrations of liquid can cause

dermatitis.

**Aspiration Hazard** Small amounts of product which enter the lungs during ingestion or vomiting can cause

serious lung injury and death.

Not Available **Synergistic Materials** 

# Section 12 - Ecological Information

**Ecotoxicity** 

Component **Toxicity to Algae Toxicity to Fish** Toxicity to Daphnia and Other Aquatic Invertebrates

ClearPAC Plus Not Available Not Available Not Available

**Biodegradability** Not Available **Bioaccumulation** Not Available **Mobility** Not Available

Other Adverse Effects Contact with lead pipes may lead to increased lead content.

# 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** UN3264

**UN Proper Shipping Name** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Polyhydroxyl aluminum chloride)

Transport Hazard Class(es) 8 **Packaging Group** Ш

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

Not Available Special Precautions Not Available Transport in Bulk

Additional Information Packing Group Limited Quantity Index

Ш

0 1 L Ш 5 L



Other

Secure containers (full and/or empty) with suitable hold down devises 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.

NSF Certification......Product is certified under NSF for coagulation and flocculation at a maximum dosage of: 166 mg/L

NSF product use restrictions based on requirements obtained from the NSF website for current requirements.

## Section 16 – Other Information

#### **Preparation Date**

October 19, 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 (CACD) Responsible Distribution<sup>(R)</sup> 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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