



Safety Data Sheet

Section 01 - Identification

Product Identifier	Genesys LF
Other Means of Identification	None
Product Use and Restrictions on Use	Liquid anti-scalant/inhibitor for membrane filtration systems.
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
Phosphonic acid	20592-85-2	20-50%	
Water	7732-18-5	50-70%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with 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 eye tissue. If irritation persists, seek medical attention.
Ingestion	Wash out mouth and drink plenty of water to dilute the product. Do not induce vomiting. Seek medical attention.
Additional Information	Not Available.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Product is not expected to burn. Use extinguishing media appropriate for surrounding fire.
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Unsuitable Extinguishing Media Not Available.

Specific Hazards Arising From the Chemical Not Available.

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 if required. Ventilate area. Stop or reduce leak if safe to do so.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up Contain and absorb onto sand or other inert material. Flush with water 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 in a cool, dry place. Avoid freezing of product during storage or transportation. Avoid contact with oxidizing materials.

Incompatibilities Aluminum, zinc, oxidizing materials.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Genesys LF	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 No specific requirement, but it is good practice to wear chemical safety goggles.

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 No specific guidelines are available. An approved respirator suitable for non-toxic dust may be adequate.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Liquid

Colour Pale yellow to clear

Odour Odourless

Odour Threshold Not Available

Property

pH 9.8-10.2

Melting Point/Freezing Point < -5°C

Initial Boiling Point and Boiling Range Not Available

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) Miscible in water.

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) 1.34-1.37 @ 20°C

% 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 Not Available

Conditions to Avoid Not Available

Incompatible Materials Aluminum, zinc, oxidizing materials.

Hazardous Decomposition Products Not Available

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Genesys LF	Not Available	Not Available	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
Genesys LF	Not Available.

Skin Corrosion/Irritation May cause irritation with prolonged contact.

Ingestion No adverse effects expected.

Inhalation No adverse effects expected.

Serious Eye Damage/Irritation May cause irritation with prolonged contact.

Respiratory or Skin Sensitization Not Available

Germ Cell Mutagenicity Not Available

Reproductive Toxicity Not Available

STOT-Single Exposure Not Available

STOT-Repeated Exposure No chronic 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
Genesys LF	Not Available	Not Available	Not Available

Biodegradability	Product has slow to moderate rate of degradability through biological and abiotic means.
Bioaccumulation	Not Available.
Mobility	Not Available.
Other Adverse Effects	Even though Genesys LF has low toxicity to aquatic life, avoid release to drain.

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.
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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 September 9, 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[®] 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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