



# Safety Data Sheet

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## Section 01 - Identification

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<b>Product Identifier</b>	Genesol 38
<b>Other Means of Identification</b>	None
<b>Product Use and Restrictions on Use</b>	Membrane cleaner
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

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## Section 02 - Hazard Identification

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### GHS-Classification

**Serious Eye Damage/Irritation**      Category 2

### Physical Hazards

No known physical hazards.

### **Warning**

### **Hazards Statements**

H319 – Causes serious eye irritation.

### **Pictograms**



### **Precautionary Statements**

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and 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.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Citric Acid	77-92-9	40%	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	If symptoms are experienced, remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact / Absorption</b>	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
<b>Eye Contact</b>	Contact lenses should never be worn when working with this product. 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.
<b>Ingestion</b>	Rinse mouth. DO NOT induce vomiting. If vomiting occurs naturally, place victim on their side in the recovery position. Seek immediate medical attention.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Carbon monoxide and carbon dioxide are normal products of combustion. Incomplete combustion may produce irritating fumes and acrid smoke.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	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.
<b>Environmental Precautions</b>	Do not allow product to enter drains. Prevent further spillage if safe.
<b>Methods and Materials for Containment and Cleaning Up</b>	SMALL SPILL: Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labelled containers. Flush area with water. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

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## Section 07 - Handling and Storage

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<b>Precautions for Safe Handling</b>	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.
<b>Conditions for Safe Storage</b>	Store in a cool, dry area, out of direct sunlight and away from heat and ignition sources. Keep quantities stored as small as possible.
<b>Incompatibilities</b>	Oxidizing agents, strong acids, strong bases.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Citric Acid	Not Established		

### 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.

**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** Respiratory protection is not normally needed.

**Thermal Hazards** Not Available

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## Section 09 - Physical and Chemical Properties

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### Appearance

<b>Physical State</b>	Liquid
<b>Colour</b>	Clear straw coloured
<b>Odour</b>	Slight odour
<b>Odour Threshold</b>	Not Available

### Property

<b>pH</b>	3.5-4.0
<b>Melting Point/Freezing Point</b>	0°C
<b>Initial Boiling Point and Boiling Range</b>	100-102°C
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Available

<b>Flammability</b>	Non-Flammable
<b>Upper Flammable Limit</b>	Not Available
<b>Lower Flammable Limit</b>	Not Available
<b>Vapour Pressure (mm Hg, 20°C)</b>	17.5
<b>Vapour Density (Air=1)</b>	Not Available
<b>Relative Density</b>	Not Available
<b>Solubility(ies)</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not Available
<b>Auto-ignition Temperature</b>	Not Available
<b>Decomposition Temperature</b>	Not Available
<b>Viscosity</b>	Not Available
<b>Explosive Properties</b>	Not Available
<b>Specific Gravity (Water=1)</b>	1.18-1.20
<b>% Volatiles by Volume</b>	Not Available
<b>Formula</b>	Not Available
<b>Molecular Weight</b>	Not Available

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## Section 10 - Stability and Reactivity

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<b>Reactivity</b>	Not Available
<b>Stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None known.
<b>Conditions to Avoid</b>	Heat, flames, sparks, build-up of static electricity, and other ignition sources.
<b>Incompatible Materials</b>	Strong oxidizing agents, strong reducing agents, strong bases, metal nitrates.
<b>Hazardous Decomposition Products</b>	Carbon monoxide and carbon dioxide are normal products of combustion. Incomplete combustion may produce irritating fumes and acrid smoke.

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## Section 11 - Toxicological Information

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### Acute Toxicity

<b>Component</b>	<b>Oral LD<sub>50</sub></b>	<b>Dermal LD<sub>50</sub></b>	<b>Inhalation LC<sub>50</sub></b>
Citric Acid (40%)	7,500 mg/kg (rat) 12,500 mg/kg (mouse)	Not Available	Not Available

## Chronic Toxicity – Carcinogenicity

### Component

### IARC

Citric Acid

Citric acid is not known to be carcinogenic.

<b>Skin Corrosion/Irritation</b>	May cause skin irritation.
<b>Ingestion</b>	No adverse effects expected.
<b>Inhalation</b>	No adverse effects expected.
<b>Serious Eye Damage/Irritation</b>	Can cause severe irritation to eyes.
<b>Respiratory or Skin Sensitization</b>	Citric acid aerosols may induce coughing and bronchoconstriction. Citric Acid has been reported to have allergenic properties, and might cause allergic contact dermatitis and sensitization to the sun.
<b>Germ Cell Mutagenicity</b>	Citric acid is not known to be mutagenic.
<b>Reproductive Toxicity</b>	Citric acid is not known to cause reproductive toxicity.
<b>STOT-Single Exposure</b>	Not Available
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Not Available

## Section 12 – Ecological Information

### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Citric Acid	Not Available	LC <sub>50</sub> (Leuciscus idus melanotus, 48hr): 440mg/L	LC <sub>50</sub> (Carcinus maenas, 48hr): 160mg/L EC <sub>50</sub> (Daphnia magna, 24hr): 1535mg/L
<b>Biodegradability</b>	Readily biodegradable.		
<b>Bioaccumulation</b>	Does not bioaccumulate.		
<b>Mobility</b>	Due to its physico-chemical characteristics citric acid is highly mobile in the environment and will partition to the aquatic compartment.		
<b>Other Adverse Effects</b>	Not Available		

## Section 13 – Disposal Considerations

<b>Waste From Residues/Unused Products</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## Section 14 – Transport Information

<b>UN Number</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>Transport Hazard Class(es)</b>	Not Regulated
<b>Packaging Group</b>	Not Regulated
<b>Environmental Hazards</b>	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.

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## **Section 15 – Regulatory Information**

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**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.**

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## **Section 16 – Other Information**

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**Preparation Date** August 26, 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>®</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
- 7) PAN

## **ClearTech Industries Inc. - Locations**

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