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### PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:**

Product Form: Proprietary Liquid Blend - Non-Potable

Product Name: LineClear 50 Irrigation/Industrial Water Treatment

**Common Name:** Blended Phosphonate/Maleic Homopolymers / Stabilizer Water Treatment Liquid Compound.

**SDS Number:** LC-50

**Revision Date:** 06/03/2016

**Version:** 1.0

**Product Use:** Mineral Sequestration/Corrosion Inhibitor for Irrigation and Non-Potable Industrial Water Systems.

**Manufacturer Address:** SPER Chemical Corporation

14770-B 62<sup>nd</sup> Street N.

Clearwater, FL 33760

**Emergency:** CHEM-TEL 800-255-3924

**Information:** General Questions – 727-535-9033

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### HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture:**

**Classification (GHS-US)**

**GHS Hazard Phrases:**

H302 – May be Harmful if swallowed.

H290 – May be corrosive to metals.

H319 – May Cause serious eye irritation.

H314 – May Cause severe skin burns and eye damage

**GHS Precaution Phrases:**

P234 – Keep only in original container.

P264 – Wash hands thoroughly after handling.

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

P260 – Do not breathe dust/fume/gas/mist/vapors/spray.

**GHS Response Phrases:**

P301+312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 – If eye irritation persists, get medical advice/attention.

P390 – Absorb spillage to prevent material damage.

**GHS Storage and Disposal**

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with all federal, state and local regulations.

**OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

**Potential Health Effects (Acute and Chronic):**

May causes serious eye damage and skin irritation. Harmful if swallowed or if inhaled.

**Eye Contact:**

Corrosive. May cause eye burns and permanent tissue damage.

**Skin Contact:**

Direct contact may cause burns to skin, eyes, and respiratory tract.

**Ingestion:**

Can be corrosive to mouth, esophagus and stomach.

**Inhalation:**

Harmful if inhaled. Vapors and/or aerosols may be irritating to eyes and respiratory tract.



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### COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	Product Identifier	% (w/w)	Classification (GHS-US)
Purified Water (17 megohm)	(CAS No) 7732-18-5	40 - 60	Not Classified
Hydroxyethylidene Diphosphonic acid	(CAS No) 2809-21-4	15 - 30	See section 2

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### COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Phosphonobutane Tricarboxylic acid	(CAS No) 37971-36-1	15 - 30	See section 2
Polymaleic acid	(CAS No) 26099-09-2	05 – 10	See section 2
A range of concentration as prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].			

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### FIRST AID MEASURES

**Inhalation:** Not applicable since the product is in liquid form.

**Skin Contact:** If on skin, wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove clothing and wash thoroughly before use

**Eye Contact:** In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Ingestion:** If victim is conscious and alert, give 2-3 glasses of water to drink. Induce vomiting by touching the back of the throat with finger. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

**Note to Physician:** All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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### FIRE FIGHTING MEASURES

**Flammability Classification:** Non Flammable.

**Suitable Extinguishing Media:** Non Combustible. Use extinguishing media suitable for surrounding fire.

**Unsuitable Extinguishing Media:** None known.

**Fire Fighting Instructions:** Wear positive pressure self-contained breathing apparatus (SCBA).

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### ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**Small Spills:** Mop up spill and place in an appropriate closed container. Product residuals may be safely rinsed with water and evacuated into the sanitary sewer system.

**Large Spills:** Squeegee material to a controlled area and mop up spill to be placed in appropriate container. Product residuals may be safely rinsed with water and evacuated into the sanitary sewer system.

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### HANDLING AND STORAGE

**Handling Precautions:** Avoid direct or prolonged contact with skin and/or eyes. Keep containers closed when not in use to prevent potential contamination.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters:

**Exposure Limits/Guidelines:** No exposure limits were found for this product or any of its ingredients.

**Engineering Measures/Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles, Gloves, Protective clothing.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Wear chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment. May be released or rinsed into the sanitary sewer system with dilution with water.

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### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear green, slightly viscous	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Nearly odorless	<b>Odor Threshold:</b>	Not available
<b>pH of 1% solution:</b>	1.2 - 1.6	<b>Melting Point:</b>	Not available
<b>Freezing Point:</b>	-15° C (5° F)	<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	Not available	<b>Auto-Ignition Temp:</b>	Not available
<b>Decomposition Temp:</b>	Not available	<b>Flammability:</b>	Not available
<b>UFL / LFL:</b>	Not available	<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available	<b>Specific Gravity:</b>	1.23
<b>Bulk Density:</b>	10.2 lbs. /gallon	<b>Solubility:</b>	Soluble
<b>Viscosity:</b>	Not available	<b>Molecular weight:</b>	Not available

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### STABILITY AND REACTIVITY

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Heat flames and contact with strong alkalis.

**Incompatible Materials:** Amines, Alkalis, metals, oxidizers, sulfites (toxic gas).

**Hazardous Decomposition Products:** Phosphorus oxides, sodium oxides.

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### TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects:

**Acute Toxicity:** LD50 Oral – rat →5000 MG/KG  
LD50 Dermal – rat – >15000 MG/KG  
LC50 Inhalation – No data available

**Skin Corrosion/Irritation:** (EU/CLP) Not classified (OSHA HCS) Not classified.

**Skin Sensitization:** (EU/CLP) Not classified (OSHA HCS) Not classified.

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### TOXICOLOGICAL INFORMATION (continued)

**Carcinogenic:** This product contains components that are classified as non-carcinogenic.

**Mutagenic:** This product contains components that are classified as non-mutagenic.

**Potential Health Effects:**

**Skin:** May cause irritation. Flush with water.

**Eye:** May cause irritation. Flush with water. If eye irritation develops, call a physician.

**Ingestion:** Drink large quantities of water, Induce vomiting and call a physician.

**Reproductive Toxicity:** No data available.

**Aspiration Hazard:** No data available.

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### ECOLOGICAL INFORMATION

**Toxicity:**

**Toxicity to fish:** LC50 > 820 mg/L 96 hours (Rainbow Trout)

EC50 > 1050 mg/L 48 hours (Daphnia magna)

**Persistence and degradability:** No data found for this product.

**Bio-accumulative Potential:** No data found for this product.

**Mobility in soil:** No data found for this product

**Results of PBTand vPvB assessment:** No Data

**Other adverse effects:** No data available

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### DISPOSAL CONSIDERATIONS

**Product Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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### TRANSPORT INFORMATION

**US DOT:** Not Regulated

**IMO/IMDG:** Not Regulated

**TGD:** Not Regulated

**IATA/ICAO:** Not Regulated

**DSL:** All components are listed on the DSL list.

**CIDL:** None of the components in this product are listed on the Canadian Ingredient Disclosure List.

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### REGULATORY INFORMATION

**US Federal Regulations:**

All ingredients are listed on the United States TSCA (Toxic Substances Control Act) inventory. Neither this product nor any of its components appear on any U. S. states lists.

**Canadian Regulations:**

All ingredients are listed on the Canadian DSL (Domestic Substances List)

**NOTICE**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such

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material used in combination with any other material or in any process, unless specified in the text. Manufacturer expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Manufacturer makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Manufacturer's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.