

# STERLING WATER TECHNOLOGIES LLC

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identity:** CP 734

**Recommended use of the chemical and restrictions on use:** Water treatment chemical

**Manufacturer:** Sterling Water Technologies LLC  
114 W. Seventh Street, Suite 3  
Columbia, TN 38401

**Telephone:** (800) 426-2428

**Emergency Phone: CHEMTREC: (800) 424-9300**

**SDS Date of Preparation:** 08/02/07

**Prepared by:** Denese A. Deeds, CIH Industrial Health & Safety Consultants, Inc. Woodbridge, CT 203-929-3473

### 2. HAZARDS IDENTIFICATION

**GHS Classification:**

Physical	Health	Environment
Not hazardous	Not hazardous	Not hazardous

**GHS Label Elements:**

None Required

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Inorganic Phosphates	Proprietary	30-50%
Water	7732-18-5	50-70%

### 4. FIRST AID MEASURES

**Eye:** Immediately flush victim's eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation occurs and persists.

**Skin:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.

**Ingestion:** Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation persists, Get medical attention.

**Most important Symptoms:** May cause slight eye and skin irritation.

**Indication of immediate medical attention/special treatment:** None indicated.

## 5. FIRE FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Specific hazards arising from the chemical:** Thermal decomposition may yield oxides of sodium and phosphorus.

**Special Protective Equipment and Precautions for Fire-Fighting Instructions:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

**Explosion Data (sensitivity to mechanical impact or static discharge):** None known.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8.

**Methods and Materials for Containment and Cleaning Up:** Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with the eyes. Avoid prolonged or repeated skin contact. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

Inorganic Phosphates	None Established
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**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Wear impervious gloves such as rubber or neoprene if needed to avoid prolonged skin contact.

**Eye Protection:** Safety goggles recommended.

**Other:** Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Clear to slightly turbid, viscous, opaque liquid with a characteristic odor.

<b>Physical State:</b> Liquid	<b>Odor Threshold:</b> Not established
<b>Vapor Density:</b> Same as water	<b>Initial Boiling Point/Range:</b> >100°C
<b>Solubility In Water:</b> Soluble	<b>Vapor Pressure:</b> Same as water
<b>Relative Density:</b> 1.33-1.47	<b>Evaporation Rate:</b> Same as water
<b>Melting/Freezing Point:</b> Not applicable	<b>pH:</b> 4-7
<b>VOC Content:</b> 0%	<b>Octanol/Water Coefficient:</b> Not determined
<b>Solubility:</b> Partial	<b>Decomposition Temperature:</b> Not determined
<b>Viscosity:</b> Not determined	
<b>Flashpoint:</b> Not determined	<b>Autoignition Temperature:</b> Not determined
<b>Flammable Limits: LEL:</b> Not determined	<b>UEL:</b> Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not normally reactive

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Strong bases, strong oxidizing agents, strong reducing agents,

**Hazardous Decomposition Products:** When heated to decomposition emits toxic oxides of sodium and phosphorus.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** Ingestion may cause mucous membrane and gastrointestinal irritation. May cause nausea, vomiting and diarrhea. Large amounts may cause decreased blood pressure, decreased heart rate and coma.

**Inhalation:** Inhalation of mists may cause irritation of the nose throat and upper respiratory tract.

**Eye:** May cause slight irritation with pain and tearing.

**Skin:** May cause slight irritation on prolonged or repeated contact.

**Sensitization:** This material is not known to cause sensitization.

**Chronic:** None known.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Germ Cell Mutagenicity:** None currently known.

**Reproductive Toxicity:** None currently known.

**Numerical Measures of Toxicity:** Oral rat LD50: >5840 mg/kg.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Daphnia magna EC50 48hr: >485 mg/l; Rainbow trout LC50 96-hr: >1000 mg/l; Medina & Mysid shrimp LC50 96hr: >1000 mg/l

**Persistence and Degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available  
**Other Adverse Effects:** None known

### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

### 14. TRANSPORT INFORMATION

**Dot Hazardous Materials Description:**

Proper Shipping Name: Not Regulated  
UN Number: None  
Hazard Class/Packing Group: None  
Labels Required: None

### 15. REGULATORY INFORMATION

**CERCLA:** Releases above the reportable quantity of 20,400 lbs must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Not hazardous

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

**CANADA:**

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

**Canadian CEPA:** All the components of this product are listed on the Canadian DSL.

**Canadian WHMIS Classification:** Not hazardous

### 16. OTHER INFORMATION

**NFPA Rating:** Health = 1      Fire = 0      Reactivity = 0

**HMIS Rating:** Health = 1      Fire = 0      Reactivity = 0

SDS Revision History:  
08/02/07: New SDS  
08/07/12: Updated SDS

**HMIS Hazard Ratings**

Health            1  
Fire                0  
Reactivity        0

**NOTICE**

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Sterling Water Technologies LLC shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.