



## SAFETY DATA SHEET

Current Revision: 1, 11/24/2015	Prepared By: Ben Ward, Product Engineer
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### I. IDENTIFICATION

<b>EMERGENCY PHONE:</b> <p style="text-align: center;"><b>CHEMTREC- (800) 424-9300</b>  <b>CCN: 19481</b></p>	Salem Fabrication Supplies 5901 Gun Club Road Winston-Salem, NC 27103 Information: <b>(800) 234-1982</b>
<b>PRODUCT NAME:</b> Salem Ultra Clean Settling Ai	
<b>SYNONYMS:</b> Flocculent	

**Recommended Use:**

Glass flocculant settling agent for industrial manufacturing operations.

**Restrictions:**

N/A

### II. HAZARD IDENTIFICATION

**Classification (§1910.1200):**

- Corrosive to Metals 1
- Skin Corrosion 1B
- Eye Damage 1

**Signal Word/Symbols:**

**NFPA 704**

**GO BEYOND THE EDGE**

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**CALIFORNIA**

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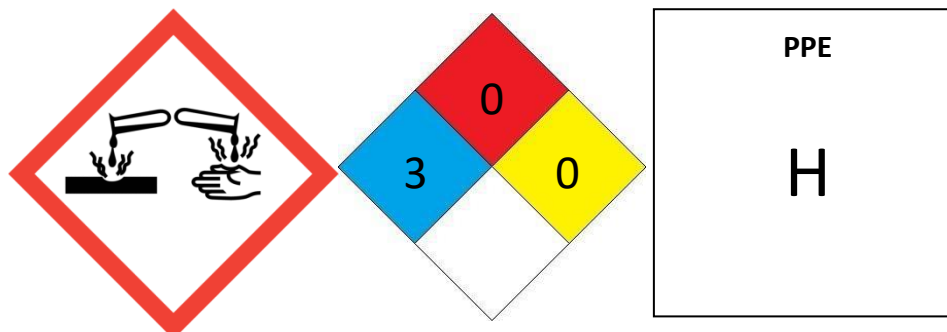
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Danger

**Hazard Statement:**

May be corrosive to metals.  
 Causes skin irritation/corrosion. Causes serious eye damage.

**Precautionary Statement:**

Keep in original container. Store only in corrosion resistant containers.  
 Thoroughly wash skin and clothing after handling. Remove all contaminated clothing.  
 Wash all areas where skin contact occurs.  
 Rinse eyes thoroughly for several minutes if contact occurs. Remove contact lenses if possible.  
 Contact poison center or doctor.  
 If skin irritation occurs, seek medical advice/attention.

**Miscellaneous Hazards:**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. If involved in a fire and thermal decomposition occurs, or other decomposition occurs corrosive, toxic, and acrid vapors may be released.

**Unknown Acute Toxicity Statement:**

N/A

**III. COMPOSITION**

CHEMICAL NAME:	COMMON NAMES:	CAS:	% BY WEIGHT:
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Aluminum Chloride	Aluminum trichloride	1327-41-9	30-60
Phosphoric Acid	Trihydroxidooxidophosphorus	7664-38-2	1-5

\*Information withheld as a trade secret **Classified**

**Impurities and Additives:**

N/A

**IV. FIRST AID MEASURES**

**Inhalation:**

Keep at rest and in a position comfortable for breathing. Seek medical attention. Symptoms may be delayed.

**Skin Contact:**

Remove contaminated clothing. Heavily rinse affected area with water for at least 15 minutes. Wash skin thoroughly with mild soap and water. Seek medical attention immediately if irritation develops or persists.

**Eye Contact:**

Immediately rinse with water for a prolonged period while holding the eyes open. Rinse with water for several minutes. Remove contact lenses, if possible. Continue rinsing for at least 60 minutes. Immediately call a poison center or doctor.

**Ingestion:**

Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention immediately.

**Symptoms/Effects:**

Eye irritation/damage, skin and lung irritation. Ingestion likely to have harmful effects.

**Level Of Medical Attention Needed:**

Seek medical advice immediately if feeling unwell or symptoms develop.

**V. FIRE-FIGHTING MEASURES**

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**Suitable Extinguishing Media:**

Use extinguishing media appropriate for environment surrounding fire.

**Unsuitable Extinguishing Media:**

Do not use heavy, direct water stream as fire may spread.

**Specific Hazards:**

Reacts with strong oxidizers for increased fire chance. Acrid, corrosive vapors such as Hydrogen Chloride will form during fire.

**Special Protective Equipment:**

Use NIOSH approved oxygen device. Use all equipment needed to handle any fire.

## VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid all contact and rinse any affected areas thoroughly. Do not breathe vapor, mist, or spray. Wear all PPE recommended below. Any exposure of this product in elevated temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Contact with metals may evolve flammable hydrogen gas. May be corrosive to metals.

**Protective Equipment:**

See below for protective equipment.

**Emergency Procedures:**

Stop leak if possible. Ventilate area. Eliminate sources of possible ignition.

**Methods for Cleanup/Removal:**

Ventilate area. Clear up spills immediately and dispose of waste safely. Small quantities of liquid spill take up in non-combustible absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labeled container for proper disposal. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

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## VII. HANDLING AND STORAGE

### Handling Precautions:

Do not use near heat. Evaluate area for fumes.  
 Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke in areas where product is used.

### Safe Storage Conditions:

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from oxygen and oxidizers. Storage areas should be periodically checked for corrosion and integrity.

### Incompatibilities:

Strong oxidizers. Strong bases. Alkalis. Metals.

## VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT

<b>OSHA PEL:</b>  Phosphoric Acid: 1 mg/m <sup>3</sup> (TWA)	<b>ACGIH TLV:</b>  1 mg/m <sup>3</sup> (TWA) 3 mg/m <sup>3</sup> (STEL)	<b>OTHER EXPOSURE LIMITS:</b>  Canadian OEL: 1 mg/m <sup>3</sup> (TWA) 3 mg/m <sup>3</sup> (STEL) USA NIOSH REL: 1 mg/m <sup>3</sup> (TWA) 3 mg/m <sup>3</sup> (STEL)
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### Appropriate Engineering Controls:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

### Personal Protective Measures:

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Avoid all unnecessary exposure. Insufficient ventilation: wear respiratory protection.  
 Protective clothing. Protective goggles. Gloves.  
 Chemically resistant materials and fabrics.  
 Impermeable protective gloves.  
 A full face shield is recommended. Chemical safety goggles.  
 Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

N/A

<b>Odor:</b> N/A	<b>Odor Threshold:</b> N/A	<b>Ph:</b> 1-3
<b>Melting/Freezing Point:</b> N/A	<b>Boiling Point:</b> N/A	<b>Boiling Range:</b> N/A
<b>Flash Point:</b> N/A	<b>Evaporation Rate:</b> N/A	<b>Flammability (Solid, Gas):</b> N/A
<b>Upper/Lower Flammability/Explosive Limit:</b> N/A	<b>Vapor Pressure:</b> N/A	<b>Vapor Density:</b> N/A
<b>Relative Density:</b> 1.30-1.35	<b>Solubility (ies):</b> Water	<b>Partition Coefficient: NOctanol/Water:</b> N/A

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<b>Auto Ignition Temperature:</b> N/A	<b>Decomposition Temperature:</b> N/A	<b>Viscosity:</b> N/A
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## X. STABILITY AND REACTIVITY

### Reactivity:

Reacts with strong oxidizers to increase fire risk. Reacts with metals to produce fumes.

### Chemical Stability:

Stable under normal conditions.

### Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### Conditions to Avoid: Static Discharge, Shock, Vibrations, Etc.

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

### Incompatible Materials:

Strong bases. Strong oxidizers. Alkalis. Metal.

### Hazardous Decomposition Products:

Corrosive vapors. Acrid smoke and irritating fumes. Hydrogen chloride.

## XI. TOXICOLOGICAL INFORMATION

### Possible Exposure Routes (Inhalation Etc.):

Inhalation, ingestion, dermal, and eye contact.

### Symptoms Related To Toxicological Characteristics:

Irritation is first sign. Eye damage known. Other affects may be present, but are unknown.

### Delayed, Immediate, and Chronic Effects:

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Irritation and larger symptoms to skin, respiratory tract, and digestive system may be delayed. Causes serious eye damage. No known chronic effects under accepted use./ **Numerical**

**Toxicity Measurements:**

Aluminum Chloride:

LD50 > 2000mg/kg (Oral Rat)

LD50 > 2000mg/kg (Dermal Rat)

Phosphoric Acid:

LD50 1530mg/kg (Oral Rat)

LD50 2730mg/kg (Dermal Rabbit)

LC50 > 850mg/m<sup>3</sup> (Inhalation Rat 1h) **NTP/LARC/OSHA**

**Known Carcinogen:**

Not classified as a known carcinogen.

**XII. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Not classified.

**Persistence and Degradability:**

Not known.

**Bioaccumulative Potential:**

Not known.

**Soil Mobility:**

Not known.

**Other Adverse Effects:**

Due to effects of chemical on humans data would suggest this product is harmful to the environment, but the exact effects are unknown. Dispose of properly and do not release into the environment.

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### XIII. DISPOSAL CONSIDERATIONS

**Waste Residue and Disposal:**

Dispose of product in conjunction with all local, state, and national regulations. Do not release into the environment.

### XIV. TRANSPORT INFORMATION

<b>UN Number:</b> UN3264	<b>UN Proper Shipping Name:</b>  Corrosive Liquid, Acidic, Inorganic, N.O.S. (polyaluminum hydroxychloride, phosphoric acid)	<b>Transport Hazard Class (es):</b>  8
<b>Packing Group:</b>  III	<b>Environmental Hazards:</b>  N/A	<b>Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code)</b>  N/A

**Special Precautions:**

Handle with care. Treat spills with caution and follow all instructions.

### XV. REGULATORY INFORMATION

**Environmental/ Health/ Safety:**

**US Federal Regulations**

**SARA Section 311/312 Hazard Classes**  
 Immediate (acute) health hazard

**Aluminum chloride, basic (1327-41-9):**  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory

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**Phosphoric acid (7664-38-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Phosphoric acid (7664-38-2):**

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

**Canadian Regulations**

**Hyper+Ion® 1750D WHMIS**

**Classification:**

Class E - Corrosive Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

**Aluminum chloride, basic (1327-41-9)**

Listed on the Canadian DSL (Domestic Substances List) WHMIS

**Classification:**

Class E - Corrosive Material

**Phosphoric acid (7664-38-2)**

Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List) IDL Concentration 1 % WHMIS Classification:

Class E - Corrosive Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

**XVI. OTHER INFORMATION**

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Salem Fabrication Supplies. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Salem Fabrication Supplies assumes no legal responsibility for use of or reliance upon this information.

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