

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1

Product Name: Maintain Pool Pro Liquid Flocculant
Product Id: 5780
Date: 03-15-15
Product/Chemical Name: Aluminum chloride hydroxide sulfate
Chemical Formula: $Al_a(OH)_bCl_c$ where b/a varies around 2.5
CAS #: 39290-78-3
Synonyms: Polyaluminum chloride, solution
General Use: Water Treatment Chemical
Edition: 01
Supplier: USALCO, LLC
2601 Cannery Avenue
Baltimore, MD 21226
Phone: 410-354-0100
Fax: 410-354-1021
Emergency Telephone: Contact **CHEMTREC** 1-800-424-9300, 24hrs/day, 7 days/week.
Sold By: Baleco Int'l Inc.
PO Box 11331
Cincinnati, OH 45211
(513) 353-3000

SECTION 2. HAZARDS IDENTIFICATION 2

Appearance: Clear, colorless to amber liquid
Physical State: Liquid
Odor: Negligible

CLASSIFICATION

Irritating to eyes	Category 2
Corrosive to metals	Category 1

Hazard Pictogram:



Signal Word: **Warning**
Hazard Statements Causes Skin and eye irritation
May be corrosive to metals

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product
Wear protective gloves, and eye protection. Keep only on original container.
Response: If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage: Store in corrosive resistant plastic or FRP container or a container with corrosive inner liner.

Disposal: Dispose in accordance with all applicable regulations: US EPA 40 CFR 262. Hazardous Waste Number(s): May be D002 under §261.22(a)(2) due to rate of corrosion of metal.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS 3

Ingredient Name	CAS Number	% wt
Aluminum Chloride Hydroxide Sulfate	39290-78-3	15-45
Water	7732-18-5	55-85

SECTION 4. FIRST AID 4

First Aid Measures

General Advice After first aid, get appropriate in-plant, paramedic, or community medical support.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical advice/attention.

Skin Contact Wash off immediately with plenty of water. Take off contaminated clothing.

Inhalation (mist or spray) Remove from exposure; seek medical treatment if any symptoms occur.

Ingestion If conscious give large amounts of water. Seek medical attention immediately.

Most important symptoms and effects

Symptoms Causes serious eye damage. May cause skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES 5

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None identified.

Specific Hazards Arising from The Chemical Negligible fire hazard. Decomposition products may be toxic.

Hazardous Decomposition Products Hydrogen chloride. Sulfur dioxide.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH approved or equivalent and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES 6

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8. Keep unnecessary people away, isolate hazard area and restrict entry.

Environmental Precautions Do not release into sewers or waterways. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Small Spills: If directed to an industrial sewer, wash down with large volumes of water. Spills can be neutralized and absorbed with soda ash or lime, but neutralization will release carbon dioxide, which can generate a breathing hazard. For large spills, dike far ahead of spill for later disposal. Contain large spills and pump into a suitable tank for disposal. Neutralize with soda ash or lime if necessary. Adequate ventilation is required due to release of Carbon Dioxide

SECTION 7.

HANDLING AND STORAGE

7

Precautions for safe handling

Advice on Safe Handling

Ensure that all containers are labeled in accordance with OSHA regulations. Treat as a dilute acid. Avoid contact with metal, as product will slowly corrode iron, brass, copper, aluminum and mild steel. Avoid contact with skin and eyes. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep storage temperature below 30°C/86°F. Store away from incompatible materials. Keep only in original container.

SECTION 8.

EXPOSURE CONTROLS / PERSONAL PROTECTION

8

Exposure Guidelines

No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls

Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

Skin and Body Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. **WARNING!**: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

General Hygiene

Considerations

Contaminated Equipment: Separate contaminated work clothes from street clothes. Remove this material from your shoes and clean personal protective equipment. Do not eat, drink, smoke, or apply cosmetics while handling this product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Wash contaminated clothing before reuse

SECTION 9.

PHYSICAL AND CHEMICAL PROPERTIES

5

Information on basic physical and chemical properties

Appearance

Liquid, clear, colorless to amber color

Odor

Negligible

Odor threshold

Not determined

pH

>2 to 3.5

Relative density; (specific gravity)

1.2 ± 0.1 (1=Water) @ 4°C

Melting point/freezing point

< -17.8°C / <0°F

Initial boiling point and boiling range

> 110°C / >230°F

Decomposition temperature

±120°C / 250°F

Viscosity

5-50 centipoise @ 25 °C (77 °F)

Auto-ignition temperature

Not flammable

Evaporation rate

Similar to water

Flammability (solid, gas)

Not flammable

Flash point

Will not burn

Upper/lower flammability

or explosive limits

Will not burn

Partition coefficient:

n-octanol/water

Not relevant

Solubility

Soluble in water

Vapor density Similar to water
 Vapor pressure Similar to water

SECTION 10. STABILITY AND REACTIVITY 10

Reactivity Not reactive under normal conditions.
Chemical Stability Stable under recommended storage conditions.
Possibility of Hazardous Reactions Reacts with Zinc and Aluminum to form Hydrogen gas. Contact with strong alkalis (e.g. Ammonia and its solutions, Sodium hydroxide (caustic), Potassium hydroxide, chlorites) may generate heat, splattering or boiling and toxic vapors.
Hazardous Polymerization Hazardous polymerization does not occur.
Conditions to Avoid Contact with incompatible materials.
Incompatible Materials Metals such as aluminum, tin, and zinc. Strong alkalis.
Hazardous Decomposition Products Hydrogen chloride. Sulfur dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION 11

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.
Skin Contact Avoid contact with skin.
Inhalation Avoid breathing vapors or mists.
Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Chloride Hydroxide Sulfate 39290-78-3	>5000 mg/kg (Rat)	NA	NA

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Numerical measures of toxicity Not determined

SECTION 12. ECOLOGICAL INFORMATION 12

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plant	Fish	Toxicity to microorganisms	Crustacea
Aluminum Chloride Hydroxide Sulfate 39290-78-3		1460 – 1500: 48h Leuciscus idus melanotus mg/L LC50 static		

Persistence/Degradability Not determined
Bioaccumulation Not determined

Mobility

Chemical Name	Partition Coefficient
Aluminum Chloride Hydroxide Sulfate 39290-78-3	3

Other Adverse Effects Not determined

SECTION 13.**DISPOSAL PROCEDURES****13****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14.**TRANSPORT INFORMATION****14****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT**UN/ID No**

UN1760

Proper Shipping Name

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate)

Hazard Class

8

Packing Group

III

IATA**UN/ID No**

UN1760

Proper Shipping Name

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate)

Hazard Class

8

Packing Group

III

IMDG**UN/ID No**

UN1760

Proper Shipping Name

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate)

Hazard Class

8

Packing Group

III

Marine Pollutant

This material may meet the definition of a marine pollutant

SECTION 15.**REGULATORY INFORMATION****15****International Inventories**

Not determined

US Federal Regulations**Component Analysis**

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA 311/312 Hazard Categories**Acute Health Hazard**

Yes

Chronic Health Hazard

No

Fire Hazard

No

Sudden Release of Pressure Hazard

No

Reactive Hazard

No

SARA 313

Not listed

CWA (Clean Water Act)

Not listed

US State Regulations**U.S. State Right-to-Know Regulations**

Not determined

SECTION 16.**OTHER INFORMATION****16****HMIS:**

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

NFPA

Disclaimer: We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use in Section 1 of this SDS, please contact your sales or technical service representative.

Reason for Revision: Conversion to SDS format. Changes in all sections.

All Sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910-1200(GHS). The information in this safety data sheet should be provided to all who will use, handles, store, transport, or otherwise be exposed to this product. This Information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Baleco believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is. Additionally, if this safety data sheet is more than three years old, you should contact Baleco at The phone number listed in section 1 to make certain that this sheet is current.

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Baleco Int'l Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Baleco Int'l Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information.

No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or of any other nature, are made hereunder with respect to information or the product to which the information refers.

Prepared By: MSDS/SDS Department with information from the Supplier.

Baleco Int'l Inc.
PO Box 11331
Cincinnati, OH 45211
(513)353-3000

End of Safety Data Sheet