Safety Data Sheet

Poly-Floc 201

SECTION 1. IDENTIFICATION

Product Identifier Poly-Floc 201
Other Means of Identification EC-201
Product Family Water Treatment
Recommended Use Water Treatment.
Restrictions on Use None known.
Manufactured for: Essential Chemical, 4800 Meadows Rd. Ste. 300, Lake Oswego, OR, 97035, (503)714-9781
Emergency Phone No. CHEMTREC, 800-424-9300, Available 24 hours.

SECTION 2. HAZARD IDENTIFICATION

Classified according to the US Hazard Communication Standard (HCS 2012).

Classification

Skin irritation - Category 3; Eye irritation - Category 2A

Label Elements



Warning
Causes mild skin irritation.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Water	7732-18-5	70 to 90	
Aluminum chloride hydroxide (Al2Cl(OH)5)	12042-91-0	10 to 30	

Notes

Aluminum chloride hydroxide (Al2Cl(OH)5):

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air.

Skin Contact

Wash with plenty of water.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Immediately contact a doctor or emergency response staff.

Most Important Symptoms and Effects, Acute and Delayed

None known.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.
No special equipment is required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes.

Conditions for Safe Storage

Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

No specific guidelines are available.

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

No specific guidelines are available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear yellow.
Odour	Odourless (Aluminum chloride hydroxide (Al2Cl(OH)5))
Odour Threshold	Not available
pH	~ 4
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	~ 212 ºF (Aluminum chloride hydroxide (Al2Cl(OH)5))
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	~ 1.04 at 20 ºC (Aluminum chloride hydroxide (Al2Cl(OH)5))
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)

Other Information

Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Contact with strong alkali solutions (ammonia, hydrogen peroxide, potasssium hydroxide, sodium hydroxide, calcium hydroxide, or chlorites) may generate heat, splattering, or toxic vapos.

Conditions to Avoid

Not applicable.

Incompatible Materials

Strong alaline solutions.

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Based on manufacturer's analysis, hazard to humans is moderate.

Likely Routes of Exposure

Skin contact; eye contact.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Causes mild skin irritation.

Serious Eye Damage/Irritation

May injure eye tissue.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Aluminum chloride hydroxide (Al2Cl(OH)5):

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Aluminum chloride hydroxide (Al2Cl(OH)5):

Interactive Effects

Aluminum chloride hydroxide (Al2Cl(OH)5):

Other Information

Aluminum chloride hydroxide (Al2Cl(OH)5):

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Aluminum chloride hydroxide (Al2Cl(OH)5)	~ 0.75 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water)			

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations.

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

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