SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

MANUFACTURED FOR: Essential Chemical
4800 Meadows Rd. Ste. 300 Lake
Oswego, OR 97035
(503) 714-9781

Poly-Floc 301

EMERGENCY PHONE: **CHEMTREC:** (800) 424-9300
PRODUCT NAME: Poly-Floc 301
PRODUCT NUMBER:
DATE PREPARED: 06/27/2025
LAST REVISION: 06/27/2025
SYNONYMS: Alum Solution

Uses: Flocculent
Use Restrictions: None Known

PURE: ☐ LIQUID: ☒
MIXTURE: ☒ SOLID: ☐

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW: Corrosive

GHS CLASSIFICATION: Corrosive to Metals (Category 1), Skin Irritation: (Category 2), Eye Irritation: (Category 1).Acute Toxicity Oral: (Category4)

GHS Label elements, including precautionary statements

SIGNAL WORD: Danger **PICTOGRAM:**



HAZARD STATEMENT(S):

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage

PRECAUTIONARY STATEMENT(S):

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 +P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediatelycall a POISON CENTER or doctor/ physician.
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.
P391: Collect spillage.

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.
INHALATION: Inhalation of mists may cause considerable irritation.
INGESTION: Oral and gastrointestinal irritation and local tissue damage. Nausea, vomiting, diarrhea may occur.
SKIN CONTACT: Irritation may result by contact with concentrated solutions..
SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, coughing, redness of skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name		CAS #	Wt. Range %
ALUMINUM SULFATE	(AL2-O12-S3 · xH2O)	17927-65-0	45 – 50%

4. FIRST AID MEASURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes. Get medical attention.
INHALATION: Remove to fresh air and Keep at rest in a position comfortable for breathing.. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
INGESTION: If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.
SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.
AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin or respiratory conditions.
SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.
COMBUSTION PRODUCTS: Sulphur Oxides, Aluminum Oxide

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Small spills: Mop up, wipe up or soak up immediately. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Or soak up with inert material and shovel into poly drums for disposal.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Wear personal protection as required per safety program. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS: For industrial and institutional use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

EXPOSURE CONTROLS:

	OSHA PEL		ACGIH TLV	
Chemical Name	**TWA**	**STEL**	**TWA**	**STEL**
ALUMINUM SULFATE	2mg/m3	n/a	2mg/m3	n/a

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK/HYGENIC PRACTICES: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

EYE PROTECTION: Use chemical safety goggles and/or full face shield when splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas

PROTECTIVE GLOVES: Rubber or other impervious material with gauntlets. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, as appropriate to avoid skin contact.

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

a) Appearance: Clear colorless, light green, or amber liquid.	**k) Vapor pressure:** No data available
b) Odor: Odorless	**l) Vapor density:** No data available
c) Odor Threshold: No data available	**m) Relative density:** 1.335
d) pH: 3.5+/- 0.5	**n) Water solubility:** Complete
e) Melting point/freezing point: >32°F (0°C)	**o) Partition coefficient: noctanol/ water:** No data available
f) Initial boiling point and boiling range: >212°F (100°F)	**p) Auto-ignition temperature:** n/a
g) Flash point: n/a	**q) Decomposition temperature:** No data available
h) Evaporation rate: No data available	**r) Viscosity:** No data available
i) Flammability (solid, gas): n/a	**s) Explosive properties:** n/a
j) Upper/lower flammability or explosive limits: n/a	**t) Oxidizing properties:** n/a
-) Pounds Per Gallon: 11.14	**-) Other properties:** No other data is available for this product. . . . .

10. STABILITY AND REACTIVITY:

STABLE: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Strong Basic (Alkaline) Materials

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No data available

HAZARDOUS POLYMERIZATION: Will Not Occur

11. TOXICOLOGICAL INFORMATION: No data available

12. ECOLOGICAL INFORMATION: Keep out of waterways. No other data available

13. DISPOSAL CONSIDERATIONS:

Dilute with large amounts of water and dispose to municipal or industrial waste treatment facility in accordance with applicable Local, State and Federal regulations.

14. TRANSPORT INFORMATION:

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3264	Corrosive Liquids, Acidic, Inorganic, n.o.s. (Aluminum Sulfate)	8	III

ERG No.: 154

15. REGULATORY INFORMATION: No data available

16. OTHER INFORMATION:

HMIS INFORMATION: HEALTH: 1 FLAMMABILITY: 0 PHYSICAL HAZARD: 0 PERSONAL PROTECTION : C
NFPA INFORMATION: TOXICITY: 1 FIRE: 0 REACTIVITY: 0 SPECIAL: C

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