



Inorganic Coagulant Solve 70

Material Safety Data Sheet

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COMPANY: WaterSolve, LLC, 4964 Starr St. S.E. Grand Rapids, MI 49546, USA
For Product information call 616-575-8693.

I. Product Identification

Product Name: **Solve 70**

Chemical Type: Polyaluminum hydroxychlorosulfate

Component:	CAS#	% by weight	OSHA PEL/ACGIH TLV
Polyaluminum hydroxychlorosulfate	1327-41-9	20-40%	2 mg/m ³ as Al
Water	7732-18-5	60-80%	NA

II. Hazards Identification

Caution: Maximum allowable dosage for potable water treatment is 250 mg/l

Health Effects:

Skin: May cause irritation, may cause dermatitis after prolonged or repeated contact.

Eye Contact: Causes irritation and painful burns of the eye and eyelids upon contact. Symptoms are stinging, redness, tearing.

Ingestion: Swallowing may cause vomiting and digestive discomfort. Ingestion of large amounts can be more harmful.

Inhalation: No effect expected under normal use. However, exposure to mist may cause nose, throat and respiratory irritation.

SARA Title III Hazards:

Fire:	No
Reactivity:	No
Acute:	Yes
Chronic:	No
Sudden release of pressure:	No

<u>Hazards Information Data</u>	<u>NFPA</u>
Health	1
Flammability	0
Reactivity	1

III. First Aid

Eye Contact: **Do not rub.** Immediately flush eyes gently for 15 minutes with plenty of water. Call a physician immediately.

Skin Contact: Flush skin with plenty of water and mild soap. Remove contaminated clothing; wash before reuse. Seek medical attention if redness and swelling of skin persists.

Inhalation: Remove person from exposure area to fresh air. Seek medical attention if needed.

Ingestion: Do not induce vomiting. If conscious, give large quantities of water or milk. Never give anything by mouth to unconscious individual. Seek immediate medical attention.

IV. Fire and Explosion Hazard Data

Flashpoint: Not applicable
Autoignition Temperature: Not applicable
Extinguishing Agents: Material is non flammable and non combustible
Fire Fighting Precautions: Use extinguishing media as appropriate for surrounding fire
Unusual Fire and Explosion Haz.: None

V. Storage and Handling

Storage: Store in acid resistant FRP tanks or plastic containers as material is corrosive to most metals. Maintain temperature at 32 deg. F to prevent freezing. Keep containers tightly closed. Dispose of empty drums in accordance with local, state and federal regulations.
Handling: Avoid contact with skin, eyes or clothing. Wear protective clothing.

VI. Accidental Release Measures/Waste Disposal

Spill or Leak Procedures: Dike spilled material. Prevent spreading by using absorbent material. Prevent product from entering drinking water supplies or storm sewers. Neutralize with soda ash. Wear protective clothing and equipment when cleaning up spill.
Waste Disposal: Dispose of waste in accordance with applicable federal, state, and local laws.

VII. Applicable Control Measures

Engineering Controls: Local ventilation
Personal Protection Equipment:
 Eye Protection: Chemical splash goggles and face shield. Eye wash station should be readily available.
 Skin Protection: Impervious gloves, clothing and rubber boots are recommended.
 Respiratory Protection: Wear NIOSH/OSHA approved respirator with appropriate cartridge if there is any potential exposure to mists in handling or firefighting.

VIII. Typical Physical Properties

Appearance: Clear water white to slight yellow liquid
Boiling point: 215 deg. F (102 deg. C)
Freezing point: 12 deg. F
Odor: None
PH: 2.6 +/- 0.5
Specific gravity: 1.24 +/- 0.05

IX. Reactivity Data

Shelf Life: Product is stable.
Materials to avoid: Material reacts with aluminum, zinc, steel, bronze and copper. Also avoid contact with strong base such as caustic soda as reaction can be extremely exothermic.

Haz. Decomposition Products: None
Hazardous Polymerization: Will not occur under normal temperatures and pressures.

X. Transportation Information

DOT

Proper Shipping Name: Corrosive liquid, N.O.S. (polyaluminum hydroxychlorosulfate)
Hazard Class: Class 8
UN #: UN 1760
Packaging Group: III
Corrosivity Test Results: 4 hours exposure study shows that product is not a dermal irritant as per 29 CFR 1910.1200 and not corrosive to skin as defined in 49 CFR 173.136 but exhibits a corrosion rate on steel and aluminum surfaces exceeding 6.25 mm a year.

XI. Toxicological/Ecological Information

TSCA: All components of the material are listed in TSCA Inventory.
CERCLA (40 CFR 302.4): Material is not a CERCLA Hazardous substance.
SARA Section 302: Material is not listed as extremely hazardous substance.
SARA III Hazards: Fire: No Reactivity: No Acute: Yes
Chronic: No Sudden release of pressure: No

This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. The user is responsible to determine the completeness of the information and suitability for the user's own particular use. The the knowledge and belief of WaterSolve, LLC, the information is accurate and reliable as of the date indicated but WaterSolve, LLC makes no express or implied warranty of merchantability for the material or the information. WaterSolve, LLC makes no express or implied warranty of fitness for a purpose for the material or for the information.