



Inorganic Coagulant Solve 80G

Material Safety Data Sheet

Date Issued: 10/27/2010

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

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

I. PRODUCT IDENTIFICATION

Product Name: **Solve 80G**
Chemical Type: Polyaluminum hydroxychloride Solution

II. COMPOSITION /INFORMATION ON INGREDIENTS

COMPONENT	CAS-No.	WEIGHT %
Polyaluminum Hydroxychloride	1327-41-9	30-60

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

OSHA Hazard Communication Standard: This product is considered hazardous under the OSHA Hazard Communication Standard.

III. HAZARDS IDENTIFICATION

Emergency Overview: *A clear, odorless, colorless to light amber colored liquid, which can cause irritation and/or burns to the skin and eyes. Vapors may irritate nose and throat. May be harmful if swallowed. Not flammable, but may release hydrochloric acid vapors if decomposed in a fire.*

Potential Health Hazards:

Skin: May cause irritation and / or burns, especially with prolonged contact.
Eye Contact: May cause severe irritation and/or corneal damage (burns).
Inhalation: Inhalation of mist may irritate mucous membranes, nose, throat and lungs.
Ingestion: May cause severe damage to mouth, esophagus and stomach.
Delayed Effects: None known.

Ingredients found on one the three OSHA designated carcinogen lists are listed below.

INGREDIENT NAME NTP STATUS IRAC STATUS OSHA LIST

No ingredients listed in this section.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION MEASURES

ENGINEERING CONTROLS:

Provide local exhaust if fuming or misty conditions prevail. Natural ventilation is normally adequate in the absence of such conditions.

Personal Protection Equipment:

- Eye Protection: Under normal working conditions, wear safety glasses. If there is reasonable probability of liquid contact with the eyes, wear chemical splash goggles and face shield. Eye wash station should be readily available. Do not wear contact lenses.
- Skin Protection: Wear rubber gloves and apron, long sleeved shirts, trousers and boots. If prolonged or repeated contact is anticipated, all clothing should be imperious to liquid. Promptly wash any contaminated clothing.
- Respiratory Protection: A respiratory protecting program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed when ever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be used in determining the suitability of various types of respirators.

General Hygiene Considerations:

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Provide eyewash stations and quick-drench shower facilities in or near areas of use of handling.

INGREDIENT NAME	ACGIH TLV	OSHA PEL	Ontario TWA EV	Mexico OEL (TWA)	NIOSH IDLH
Polyaluminum Hydroxychloride as Aluminum	2 mg/m ³				

Other exposure limits for potential decomposition products:

Hydrochloric acid vapors: 7 mg/m³ (ceiling)

IX. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear, colorless liquid
Physical State:	liquid
Chemical Formula:	Mixture
Odor:	Odorless
Solubility in water (weight%)	100%
Melting point:	25 °F (-4 °C)
Boiling point:	234.5 °F (112.5 °C)
pH:	~3.5
Specific gravity:	~1.28-1.38 @ 25C
Vapor pressure	Not applicable
Vapor density (air=1.0)	Not applicable
Evaporation rate:	Not applicable
Viscosity:	No information available
Molecular Weight:	Mixture
% Volatiles:	0
Flash point:	Not flammable

Flash point method and additional flammability data are found in Section 5.

X. STABILITY AND REACTIVITY

Normal Stable: Stable under normal conditions of use and storage.
Incompatible Products: Avoid prolonged contact with iron, galvanized iron, steel, aluminum, copper and zinc which are subject to corrosion.
Haz. Decomposition Products: Hydrogen chloride gas is formed at elevated temperatures.
Hazardous Polymerization: Will not occur under normal temperatures and pressures.

XI. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Polyaluminum Hydroxychloride

LD50 Oral

681 mg/kg (RAT)

DELATED SUBCHRONIC AND CHRONIC EFFECTS: Data not available

OTHER DATA: None

XII. ECOLOGICAL INFORMATION

No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Yes

If yes, the RCRA ID number is: D002 (corrosive)

OTHER DISPOSAL CONSIDERATIONS:

None listed.

The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

XIV. TRANSPORTATION INFORMATION

US DOT and TDG ID NUMBER: Not regulated

PROPER SHIPPING NAME:

US DOT HAZARD CLASS:

PACKING GROUP:

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

XV. REGULATORY INFORMATION

Regulatory:

TSCA INVENTORY STATUS: Listed on the TSCA Inventory

Other TSCA issues: None

SARA Title III/CERCLA: "Reportable quantities" (RQ5) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

Ingredient Name

SARA/CERCLA RQ (lb)

SARA EHS TPQ (lb)

No ingredients listed in this section.

Spills or a release resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800-424-8802) and to your local Emergency Planning Committee.

Section 311 Hazard Class: Immediate

Sara 313 Toxic Chemicals: The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
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No ingredients listed in this section.

STATE RIGHT TO KNOW

In addition to the ingredients found in Section 2, the following are listed for state right to know purposes.

<u>INGREDIENT NAME</u>	<u>COMMENT</u>
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No ingredients listed in this section.

ADDITIONAL REGULATORY INFORMATION:

None listed

WHMIS CLASSIFICATION (CANADA):

E (corrosive based on transportation classification) D2B.

Classified in accordance with WHMIS Controlled Product regulations.

FOREIGN CHEMICAL CONTROL INVENTORY STATUS:

All ingredients listed on Australia (AICS), Canada (DSL), China (IECSC), Europe (EINECS), Japan (ENCS), Korea (KECL) and Philippines (PICCS).

HMIS: 2-0-1

NFPA: 2-0-1

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