



NFPA	HMIS	PPE	Symbol(s)
			Regulated 

Preparation Date August 22, 2008

Revision Date

Revision Number: 0

Product Name: Al+Clear® A7

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Al+Clear® A7

Other/Generic Names: None.

Recommended Use: Agricultural

Manufacturer
General Chemical, LLC
90 East Halsey Road
Parsippany, NJ 07054

Further information
FOR MORE INFORMATION CALL:
Customer Service US ONLY: 800-631-8050
(Monday-Friday, 9:00am - 4:30pm)

Customer Service CANADA ONLY: 866-543-3896
(Monday-Friday, 9:00am - 4:30pm)

Emergency Telephone Number
IN CASE OF EMERGENCY CALL CHEMTREC: 800-424-9300 US ONLY
24 Hours/Day, 7 Days/Week) CANADA ONLY CALL CANUTEC: 613-996-6666
(24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear, light green or amber liquid with a negligible degree of odor. Can cause severe skin and eye irritation. Not flammable, but may release toxic vapors if decomposed in a fire.

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Skin: May cause severe skin irritation.

Eyes:	May irritate or burn eyes.
Inhalation:	Product mists may cause irritation to the respiratory tract.
Ingestion:	May irritate or burn the gastrointestinal tract.
Delayed Effects:	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
aluminum sulfate	10043-01-3	>45
Sulfuric acid	7664-93-9	<10
Water	7732-18-5	>45

4. FIRST AID MEASURES

Eye Contact	Immediately flush eyes with water for at least 15 minutes. Get immediate medical assistance.
Skin Contact:	Flush with plenty of water, removing contaminated clothing. If irritation develops, get medical attention.
Inhalation:	Remove victim immediately to fresh air.
Ingestion:	If conscious, immediately give large quantity of water or milk. Do not induce vomiting. Get medical attention immediately.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash Point:	Not flammable
FLASH POINT METHOD:	Not applicable.
Autoignition Temperature	Not applicable
UPPER FLAME LIMIT (volume % in air):	Not applicable
LOWER FLAME LIMIT (volume % in air):	Not applicable
FLAME PROPAGATION RATE (solids):	Not applicable
OSHA FLAMMABILITY CLASS:	Not applicable

Suitable Extinguishing Media Product is not flammable. Use any extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media No information available.

Explosion Limits

Hazardous Combustion Products No information available

Impact sensitivity No information available
Sensitivity to static discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

Use self-contained breathing apparatus. Use water spray to keep containers cool.

NFPA**Health 2****Flammability 0****Instability 1****6. ACCIDENTAL RELEASE MEASURES****IN CASE OF SPILL OR OTHER RELEASE:**

(See Section 8 for recommended personal protective equipment.) Dilute small spills or leaks cautiously with plenty of water. Neutralize any further residue with alkali such as soda ash, lime or limestone. Adequate ventilation is required if soda ash or limestone is used, because of the consequent release of carbon dioxide gas. Large spills: dike up with soda ash and neutralize as above. Collect liquid and/or residue and dispose of in accordance with applicable regulations.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin, eyes and clothing. Do not breathe product mists.

Storage

Store in a cool area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico OEL (TWA)	NIOSH IDLH
aluminum sulfate 10043-01-3				TWA: 2 mg/m ³	
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	15 mg/m ³
Water 7732-18-5					

Engineering Measures

Use local exhaust if misting is anticipated.

Personal Protective Equipment**Eye/face Protection**

Wear chemical safety goggles. Do not wear contact lenses.

Skin Protection

Wear impervious (e.g. rubber) gloves and apron and full work clothing including long sleeved shirts, trousers and boots. Full impervious clothing is recommended if prolonged product contact is anticipated.

Respiratory Protection

A NIOSH approved mist respirator should be worn in areas where product mists are present.

General Hygiene Considerations

Eyewash and safety showers are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

No information available

Color

Clear, light green or amber

Chemical Formula

Mixture

Odor

Negligible

Odor Threshold

No information available

Physical State

Liquid

pH

0.4 - 2.4

Flash Point:

Not flammable

Autoignition Temperature

Not applicable

Boiling Point/Range

~100 °C

Melting Point/Range	-18 °C
Flammability Limits in Air	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Specific Gravity	1.3 - 1.45
Solubility	No information available
Partition Coefficient (n-octanol/water)	No information available
Viscosity	No information available
Molecular Weight	Mixture
Water Solubility	100

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable. If evaporated to dryness, residue should not be exposed to elevated temperatures (above 760°C), as this will yield toxic and corrosive gases.
Incompatible Products	Alkalis and water reactive materials such as oleum: causes exothermic reactions.
Hazardous Decomposition Products	At elevated temperatures, sulfur oxides may be formed. These are toxic and corrosive and are oxidizers. Sulfur trioxide is also a fire hazard. The loss of these gases leaves a caustic residue.
Possibility of Hazardous Reactions	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral: aluminum sulfate component:
(oral-mouse): 6207 mg/kg
(oral-rat): 1930 mg/kg

LC50 Inhalation: sulfuric acid component:
(inhl-rat): 510 mg/m³/2 hr

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid	2140 mg/kg (Rat)		
Water	90000 mL/kg (Rat)		

Irritation No information available

Corrosivity No information available.

Sensitization No information available.

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Mexico
Sulfuric acid	A2	Group 1	Known	X	A2

Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
Target Organ Effects	No information available
Other Adverse Effects	Delayed (Subchronic and chronic) effects: Sulfuric acid component: Chronic exposure can produce changes in pulmonary function and/or chronic bronchitis.

Endocrine Disruptor Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
aluminum sulfate		LC50= 100 mg/L Carassius auratus 96 h LC50= 37 mg/L Gambusia affinis 96 h		EC50 = 136 mg/L 15 min
Sulfuric acid		LC50> 500 mg/L Brachydanio rerio 96 h		EC50 = 29 mg/L 24 h

Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility in Environmental Media	No information available
Other adverse effects	14 ppm/36 hr./fundulus/fatal/fresh water; 240 ppm/48 hr./mosquito fish/TLm/water type not specified; TLm Mosquito fish, 235 ppm, 96 hours; LC50 Largemouth bass, 250 ppm, 96 hours

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	If permitted by regulations, material may be neutralized with alkali. 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.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
US EPA Waste Number	No information available

Component	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes	RCRA - F Series Wastes	RCRA - P Series Wastes	RCRA - K Series Wastes
aluminum sulfate - 10043-01-3						
Sulfuric acid - 7664-93-9						

Water - 7732-18-5					
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14. TRANSPORT INFORMATION

DOT	Regulated
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (contains aluminum sulfate and sulfuric acid)
Hazard Class	8
UN-No	UN3264
Packing Group	PGII
TDG	Regulated
Hazard Class	8
UN-No	UN3264
Packing Group	PGII

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies
NDSL	Does not Comply
EINECS/ELINCS	Complies
ENCS	Complies
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Sulfuric acid	7664-93-9	<10	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9 (<10)	1000 lb			X

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sulfuric acid	1000 lb	1000 lb

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Component	CAS-No	California Prop. 65
Sulfuric acid	7664-93-9	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
aluminum sulfate	X	X	X		
Sulfuric acid	X	X	X	X	X

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material

D2B Toxic materials



16. OTHER INFORMATION

Prepared By Kaci Rosario, Product Safety Supervisor

Preparation Date August 22, 2008

Revision Date

Revision Summary Transfer to new Weracs format

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End of MSDS