

# MSDS Material Safety Data Sheet

Wechem, Inc.



## Alluminator

MSDS Number: AC311D

Revision Date: 10/13/08

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### 1 PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

Distributed By: Wechem, Inc  
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Harahan, LA 70123

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### 2 HAZARDS IDENTIFICATION

Route of Entry: Inhalation, ingestion, skin absorption, eye  
Target Organs: NA  
Inhalation: Corrosive! Mists and/or vapors can cause burns and/or respiratory irritation.  
Skin Contact: Corrosive! Contains HF. Can cause burns which may not be immediately painful or visible.  
Eye Contact: Corrosive! Severe burns and permanent eye damage.  
Ingestion: Corrosive! Severe burns, nausea, diarrhea and/or vomiting. Harmful or fatal if swallowed.

HMIS II-ratings (scale 0-4): Health = 4, Fire = 2, Reactivity = 1

HMIS® Rating H\*4/F2/PH1

NFPA-ratings (scale 0-4): Health = 4, Fire = 2, Reactivity = 1

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Perc.	Chemical Name	OSHA PEL (ppm)	ACGIH TLV(ppm)	Carcin. Ref.
7664393	1-10	Hydrofluoric acid	3	3	D
7664382	5-10	Phosphoric acid	1mg/m3	1mg/m3	D
111762	1-5	Ethylene glycol	25	25	D
7664939	5-20	monobutyl ether sulfuric acid	1mg/m3	1mg/m3	D



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### 4 FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. Resuscitate if necessary. Seek medical attention.
<b>Skin Contact:</b>	Wash with soap and water. If irritated seek medical attention.
<b>Eye Contact:</b>	Flush with water for 15 minutes. If irritated, seek medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Drink two large glasses of water. Get immediate medical attention.

### 5 FIRE FIGHTING MEASURES

<b>Flash Point:</b>	161.6 Deg. F
<b>Flash Point Method:</b>	Tag Closed Cup
<b>Burning Rate:</b>	ND
<b>Autoignition Temperature:</b>	ND
<b>LEL:</b>	ND
<b>UEL:</b>	ND
<b>Flammability Classification:</b>	Combustible

Extinguishing media: Alcohol-resistant foam, dry chemical, carbon dioxide, water spray

Special Fire fighting procedures: Use NIOSH/MSHA- approved self-contained breathing apparatus and full protective gear

Unusual Fire & Explosion Hazard: Extreme heat or contact with metals can release flammable hydrogen gas and other poisonous irritating gases which may be heavier than air.

### 6 ACCIDENTAL RELEASE MEASURES

Provide adequate ventilation and remove ignition sources since hydrogen gas may be generated by reactions with metal. Absorb with inert material (sand, earth) and place in sound container. Do not flush to sewers or waterways. Transfer solid and liquid materials to separate containers for disposal or reclaim. Add soda ash to neutralize area. Flush area with large amounts of water. Note: Spills on porous materials (concrete, wood, plastic, etc.) will absorb the acid and become a hazard for indefinite time. Such spills should be cleaned and neutralized immediately. US Regulations (CERCLA) require reporting spills and release to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### 7 HANDLING AND STORAGE

<b>Handling Precautions:</b>	Corrosive liquid. Handle all containers carefully. Wear protective equipment. Avoid contact with skin and eyes. When diluting, Alluminator should always be added to water. Never use hot water and never add water to this. Provide adequate ventilation.
<b>Storage Requirements:</b>	Store in tightly closed container, in a cool, dry area, away from incompatible materials. Keep from overheating or freezing. Keep out of reach of children.



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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Ventilation Requirement: Local exhaust.  
**Protective Equipment:** HMIS PP, X | Consult your supervisor for special instructions  
HMIS PP, B | Goggles, Gloves  
Respiratory Protection: Proper ventilation to keep vapor concentration below TLV of components. If exposure limit is exceeded, a full facepiece respirator with an acid gas cartridge may be worn to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.  
Protective gloves: Neoprene gauntlet type  
Eye protection: Safety goggles with plastic lenses.  
**Exposure Guidelines/Other:** Hygienic work practices: Wash with soap and water before handling food.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, colorless to pale yellow liquid	<b>Boiling Point:</b>	> 212 Deg. F.
<b>Physical State:</b>	Liquid	<b>Freezing/Melting Pt.:</b>	NA
<b>Odor:</b>	Acid	<b>Solubility:</b>	Complete
<b>pH:</b>	< 1	<b>Spec Grav./Density:</b>	1.09 +/- 0.05
<b>Vapor Pressure:</b>	NA		
<b>Vapor Density:</b>	> 1		
<b>Heat Value:</b>	NA		
<b>VOC:</b>	< 2 %		
<b>Evap. Rate:</b>	NA		
<b>Bulk Density:</b>	NA		
<b>Octanol:</b>	NA		
<b>Molecular Weight:</b>	NA		
<b>Particle Size:</b>	NA		
<b>Softening Point:</b>	NA		
<b>Viscosity:</b>	NA		
<b>Percent Volatile:</b>	>80 % as water and acid fumes		
<b>Sat. Vap. Concentrat.:</b>	NA		
<b>Molecular Formula:</b>	NA		

### 10 STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to avoid:** Heat, direct sunlight, and incompatible materials

**Materials to avoid (incompatibility):** Glass, leather, concrete, certain metals, natural rubber and many organics, strong bases, sulfides, sulfites, strong oxidizers

**Hazardous Decomposition products:** Trace levels of hydrofluoric acid gas, sulfur dioxide, phosphine, oxides of phosphorus, aldehydes, ketones, carbon dioxide and carbon monoxide

**Hazardous Polymerization:** Will not occur



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### 11 TOXICOLOGICAL INFORMATION

Hydrofluoric Acid : Inhalation LC50: 1276 ppm/1H (rat); investigated as a mutagen, reproductive effector.  
Phosphoric Acid: Dermal LD50: 2740 mg/kg (rabbit); Oral LD50: 1530 mg/kg (rat); Inhalation LC50: Not available.  
Sulfuric Acid: LD50: 2140 mg/kg (rat); Inhalation LC50, 4 hours: 255 mg/m<sup>3</sup> (rat), 160 mg/m<sup>3</sup> (mouse).

### 12 ECOLOGICAL INFORMATION

This product is expected to be slightly or moderately toxic to aquatic life.

### 13 DISPOSAL CONSIDERATIONS

Dispose of according to local, state or federal regulations.

### 14 TRANSPORT INFORMATION

Proper Shipping Name: Hydrofluoric Acid & Sulfuric Acid Mixture, 8, 6.1, UN1786, PG I



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### 15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

\*Hydrofluoric acid (7664393 1-10%) CERCLA, CSWHS, EHS302, EPCRAWPC, HAP, MASS, NJEHS, NJHS, OSHAPSM, OSHAWAC, PA, SARA313, TOXICRCRA, TXAIR, TXHWL

\*Phosphoric acid (7664382 5-10%) CERCLA, CSWHS, EPCRAWPC, MASS, NJHS, OSHAWAC, SARA313, TXAIR

\*Ethylene glycol monobutyl ether (111762 1-5%) HAP, MASS, OSHAWAC, PA, SARA 313, TXAIR

\*Sulfuric acid (7664939 5-20%) CERCLA, CSWHS, EHS302, EPCRAWPC, MASS, NJHS, OSHAWAC, PA, SARA313, TXAIR

#### REGULATORY KEY DESCRIPTIONS

CERCLA = Superfund clean up substance  
CSWHS = Clean water Act Hazardous substances  
EHS302 = Extremely Hazardous Substance  
EPCRAWPC = EPCRA Water Priority Chemicals  
HAP = Hazardous Air Pollutants  
MASS = MA Massachusetts Hazardous Substances List  
NJEHS = NJ Extraordinarily Hazardous Substances  
NJHS = NJ Right-to-Know Hazardous Substances  
OSHAPSM = OSHA Chemicals Requiring process safety management  
OSHAWAC = OSHA workplace Air Contaminants  
PA = PA Right-To-Know List of Hazardous Substances  
SARA313 = SARA 313 Title III Toxic Chemicals  
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)  
TXAIR = TX Air Contaminants with Health Effects Screening Level  
TXHWL = TX Hazardous Waste List

### 16 OTHER INFORMATION

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. \*\* Chemical listed as carcinogen or potential carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not listed [e] Animal Data only  
N/A = Not available N/D = Not determined

END OF MSDS DOCUMENT