

**ETOWAH CHEMICAL**  
**SALES & SERVICE**  
P.O. BOX 4416  
GADSDEN, AL 35904-0416  
(800) 848-8541



**N. F. P. A.**  
4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant

<b>HEALTH</b>	<b>3</b>
<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>C</b>

## Material Safety Data Sheet

24 Hour Emergency Telephone Number: (800) 535-5053

### SECTION I - IDENTIFICATION

<b>Product Name</b>	<b>Alumin-8 Plus</b>	<b>Date Prepared</b>	AUG 2009
<b>Chemical Family</b>	STRONG ACID CLEANER	<b>Item Number</b>	<b>ETC-1200</b>
<b>Proper D.O.T. Shipping Name</b>	CORROSIVE LIQUID, n.o.s		
<b>D.O.T. Hazard Classification</b>	8, UN 1760, PG II, (contains Hydrofluoric Acid)		

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
< 9	SULFURIC ACID	1mg/m3	1 mg/m3	7664-93-9
< 7	HYDROFLUORIC ACID	6 mg/m3	3 mg/m3	7664-39-3
< 2	2-BUTOXYETHANOL	25 ppm	25 ppm	111-76-2
	<b>SARA TITLE III REPORTING</b> SECTION 302 IF OVER 225 GALLONS SECTION 311, 312, 313 REQUIRED RCRA, CERCLA REQUIRED Balance non-hazardous ingredients			

### SECTION III - PHYSICAL DATA

<b>Boiling Point</b>	214 DEG F	<b>pH (Conc.)</b>	BELOW 0
<b>Solubility In Water</b>	COMPLETE	<b>pH (Use Dilution)</b>	1% 0.5 - 1.0
<b>% Volatility By Weight</b>	<90	<b>Evaporation Rate</b>	WATER=1 > 1
<b>Specific Gravity</b>	1.085	<b>Physical Form</b>	LIQUID
<b>Appearance And Odor</b>	CLEAR, COLORLESS, PUNGENT ACID ODOR		

### SECTION IV - FIRE AND EXPLOSION DATA INGREDIENTS/IDENTITY INFORMATION

<b>Flash Point</b>	NONE
<b>Extinguishing Media</b>	REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICAL
<b>Flammable Limits</b>	N/A
<b>Special Fire Fighting Procedures</b>	WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATE IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES
<b>Unusual Fire and Explosion Hazards</b>	ACIDS REACTS WITH MOST METALS TO RELEASE HYDROGEN GAS, WHICH MAY FORM AN EXPLOSIVE MIXTURE WITH AIR

### SECTION V - REACTIVITY DATA

<b>Stability</b>	STABLE
<b>Conditions to Avoid</b>	OXIDIZERS
<b>Incompatibility</b>	AVOID STRONG ALKALIES, OXIDIZERS, CHLORINE BLEACH
<b>Hazardous Decomposition Products</b>	MAY FORM TOXIC ACID VAPORS

<b>SECTION VI - HEALTH HAZARD</b>									
Routes(s) of Entry	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; padding: 2px;"><b>Inhalation?</b></td> <td style="width: 25%; padding: 2px;"><b>YES</b></td> <td style="width: 25%; padding: 2px;"><b>Skin?</b></td> <td style="width: 25%; padding: 2px;"><b>YES</b></td> </tr> <tr> <td style="padding: 2px;"><b>Ingestion?</b></td> <td colspan="3" style="padding: 2px;"><b>NO</b></td> </tr> </table>	<b>Inhalation?</b>	<b>YES</b>	<b>Skin?</b>	<b>YES</b>	<b>Ingestion?</b>	<b>NO</b>		
<b>Inhalation?</b>	<b>YES</b>	<b>Skin?</b>	<b>YES</b>						
<b>Ingestion?</b>	<b>NO</b>								
<b>Health Hazards (Acute and Chronic)</b>	<p><b>Eyes:</b> Will cause burns and damage very rapidly. <b>Skin:</b> Will cause burns which are not immediately visible or painful. <b>Inhalation:</b> Vapors are irritating to mucous membrane. Mist may cause pulmonary edema. <b>Ingestion:</b> Results in severe damage to mucous membranes, can result in death.</p>								
<b>Carcinogenicity</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; padding: 2px;"><b>NTP?</b></td> <td style="width: 25%; padding: 2px;"><b>NO</b></td> <td style="width: 25%; padding: 2px;"><b>IARC Monographs?</b></td> <td style="width: 25%; padding: 2px;"><b>NO</b></td> </tr> <tr> <td style="padding: 2px;"><b>OSHA Regulated?</b></td> <td colspan="3" style="padding: 2px;"><b>NO</b></td> </tr> </table>	<b>NTP?</b>	<b>NO</b>	<b>IARC Monographs?</b>	<b>NO</b>	<b>OSHA Regulated?</b>	<b>NO</b>		
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<b>Emergency Aid and First Aid Procedures</b>	<p><b>Eyes:</b> Flush with water for 5 minutes while calling for immediate medical attention preferably an eye specialist. Irrigate with 500 to 1000 cc's of calcium gluconat 1% in saline solution while maintaining eye lids open. Use none of the solutions described for skin treatment. <b>Skin:</b> Remove victim from the contaminated area and immediately place him under a safety shower or wash him with a water hose. Remove all contaminated clothing. Keep washing with large amounts of water for a minimum of 5 minutes. <b>Medical Treatment.</b> Apply calcium gluconate gel 2.5% until pain subsides or 20 minutes have elapsed. Make sure to note time of initiation. If pain does not subside within 20 to 30 minute, initiate calcium gluconate infiltrations with a 2.5% solution, using small caliber, long needles, preferably steel, in under and around the wound. <b>Inhalation:</b> Remove to fresh air. If breathing has stopped give artificial respiration immediately. If breathing is difficult, administer oxygen by a qualified person. <b>Ingestion:</b> Do not induce vomiting. Dilute with water. Give milk of magnesia. <b>Seek medical attention immediately.</b></p>								
<b>SECTION VII - SPILL OR LEAK PROCEDURES</b>									
<b>Spill Response</b>	Cover the contaminated surface with sodium bicarbonate (baking soda), or lime and add water to form a slurry. Scoop up slurry and wash down site with sodium bicarbonate solution.								
<b>Waste Disposal Method</b>	Dilute with water, adjust pH with lime to a pH <b>above</b> 6.0, then flush to sanitary sewer following local, state and federal regulations.								
<b>SECTION VIII - SPECIAL PROTECTION INFORMATION</b>									
<b>Eye Protection</b>	Wear safety glasses or chemical splash goggles.								
<b>Skin Protection</b>	Wear neoprene gloves.								
<b>Ventilation</b>	Normal room ventilation.								
<b>Respiratory Protection</b>	If TLV of any component is exceeded, use a NIOSH approved full face respirator.								
<b>Other Protection</b>	Neoprene apron and boots.								
<b>SECTION IX - SPECIAL PRECAUTIONS</b>									
<b>Precautions in Handling and Storage</b>	<b>Keep out of reach of children.</b> Keep away from oxidizing agents and alkalies. Rinse containers before disposal. Reportable under RCRA.								
<b>Other Precautions</b>	Safety shower, eye bath and washing facilities should be available.								

**PREPARED BY: David Brunton, Chemist**

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