

**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>1</b>
<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<b>B</b>

## Material Safety Data Sheet

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

### SECTION I - IDENTIFICATION

<b>Product Name</b>	<b>HMC-2418 LIQUID</b>	<b>Date last Revised</b>	<b>AUG 2009</b>
<b>Chemical Family</b>	INORGANIC LIQUID	<b>Item Number</b>	
<b>Proper D.O.T. Shipping Name</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s		
<b>D.O.T. Hazard Classification</b>	8, UN 1760, PG III, (ALUMINUM SULFATE SOLUTION)		

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
<30	Aluminum sulfate	2 mg Al/ m33 m3	2 mg Al/ cu m3	10043-01-3
	Balance non-hazardous ingredients			

### SECTION III - PHYSICAL DATA

<b>Boiling Point</b>	214 F	<b>pH (Conc.)</b>	2.0-2.5
<b>Solubility In Water</b>	COMPLETE	<b>pH (Use Dilution)</b>	1% 3.5
<b>% Volatility By Weight</b>	70%	<b>Evaporation Rate</b>	H <sub>2</sub> O=1 >1
<b>Specific Gravity</b>	1.320	<b>Physical Form</b>	LIQUID
<b>Appearance And Odor</b>	CLEAR AMBER TO BROWN LIQUID		

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

<b>Flash Point</b>	None
<b>Extinguishing Media</b>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Special Fire Fighting Procedures</b>	Normal fire fighting procedures should be employed.
<b>Unusual Fire and Explosion Hazards</b>	None

### SECTION V - REACTIVITY DATA

<b>Stability</b>	Product is stable
<b>Conditions to Avoid</b>	None
<b>Incompatibility</b>	Acids
<b>Hazardous Decomposition Products</b>	At high temperatures, aluminum and sulfur oxide gases

<b>Hazardous Polymerization</b>		Will not occur	
<b>SECTION VI - HEALTH HAZARD</b>			
<b>Routes(s) of Entry</b>	<b>Inhalation?</b>	<b>Yes</b>	<b>Skin?</b>
			<b>NO</b>
<b>Ingestion?</b>	<b>NO</b>		
<b>Health Hazards (Acute and Chronic)</b>	EYES: Can cause irritation, redness and burns. SKIN: Can cause irritation and dermatitis. INGESTION: Causes burns of gastro-intestinal tract. INHALATION: Excessive inhalation can cause nasal and respiratory irritation.		
<b>Carcinogenicity</b>	<b>NTP</b>	<b>NO</b>	<b>IARC</b>
			<b>N</b>
	<b>OSHA Regulated?</b>		<b>NO</b>
<b>Emergency Aid and First Aid Procedures</b>	EYES: Flush with water for 15 minutes. If eye damage occurs, consult an ophthalmologist. SKIN: flush with water for 15 minutes. INHALATION: remove to fresh air . If breathing is difficult administer oxygen. INGESTION: Do not induce vomiting dilute with water or milk. Call a physician. Never give anything by mouth to an unconscious person.		
<b>SECTION VII - SPILL OR LEAK PROCEDURES</b>			
<b>Spill Response</b>	Clean-up workers must use protective clothing to prevent body contact . pick up with wet mop, wet vac or absorbent material. Rinse floor with clear water and allow floor to dry before allowing traffic.		
<b>Waste Disposal Method</b>	Dilute with water, adjust ph with sodium bicarbonate to a pH <b>between</b> 6.0-9.0, then flush to sanitary sewer .		
<b>SECTION VIII - SPECIAL PROTECTION INFORMATION</b>			
<b>Eye Protection</b>	WEAR SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES.		
<b>Skin Protection</b>	NEOPRENE OR OTHER PROTECTIVE GLOVES		
<b>Ventilation</b>	NORMAL ROOM VENTILATION.		
<b>Respiratory Protection</b>	NONE REQUIRED IN NORMAL CONDITIONS. WHEN EXCESSIVE MISTS ARE GENERATED ABOVE TLV'S USE A RESPIRATOR.		
<b>Other Protection</b>	RUBBER BOOTS AND RUBBER APRONS WHEN HANDLING.		
<b>SECTION IX - SPECIAL PRECAUTIONS</b>			
<b>Precautions in Handling and Storage</b>	Avoid breathing vapors and mists. Keep out of reach of children. Store at room temperature . Rinse container before discarding. Safety shower should be available in immediate area.		
<b>PREPARED BY: David Brunton, Chemist</b>			
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