

**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>B</b>

## Material Safety Data Sheet

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

### SECTION I - IDENTIFICATION

<b>Product Name</b>	<b>AB-100-R</b>	<b>Date</b>	<b>JANUARY 2009</b>
<b>Chemical Family</b>	ACID CLEANER	<b>Item Number</b>	
<b>Proper D.O.T. Shipping Name</b>	HYDROFLUORIC ACID SOLUTION		
<b>D.O.T. Hazard Classification</b>	8, UN-1790, PG II, CORROSIVE, POISON <b>BIODEGRADABLE</b>		

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
< 25.0	SULFURIC ACID	1mg/m3	1 mg/m3	7664-93-9
< 15.0	HYDROFLUORIC ACID	6 mg/m3	3 mg/m3	7664-39-3
< 9.0	2-BUTOXYETHANOL	25 ppm	25 ppm	111-76-2
	<b>SARA TITLE REPORTING REQUIRMENTS</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>	212 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>	1.065	<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 REACT 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>Hazardous Polymerization</b>	WILL NOT OCCUR

<b>SECTION VI - HEALTH HAZARD</b>	
<b>Routes(s) of Entry</b>	<b>Inhalation? YES</b>   <b>Skin? YES</b>   <b>Ingestion? NO</b>
<b>Health Hazards (Acute and Chronic)</b>	<b>EYES:</b> WILL CAUSE BURNS AND DAMAGE VERY RAPIDLY. <b>SKIN:</b> WILL CAUSE BURNS. <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.
<b>Carcinogenicity</b>	<b>NTP? NO</b>   <b>IARC Monographs? NO</b>   <b>OSHA Regulated? NO</b>
<b>Emergency Aid and First Aid Procedures</b>	<b>EYES:</b> FLUSH WITH WATER FOR 20 MINUTES WHILE CALLING FOR IMMEDIATE MEDICAL ATTENTION. <b>SKIN:</b> FLUSH WITH RUNNING WATER AND IF PROLONGED SKIN CONTACT, SEEK MEDICAL ATTENTION. <b>INHALATION:</b> REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. <b>INGESTION:</b> DO NOT INDUCE VOMITING. DILUTE WITH WATER. GIVE MILK OF MAGNESIA. <b>SEEK MEDICAL ATTENTION.</b>
<b>SECTION VII - SPILL OR LEAK PROCEDURES</b>	
<b>Spill Response</b>	COVER THE CONTAMINATED SURFACE WITH SODIUM BICARBONATE (BAKING SODA), OR SLAKED 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 SODIUM BICARBONATE TO A ph <b>ABOVE</b> 6.0, THEN FLUSH TO SANITARY SEWER OR SEND TO SANITARY LANDFILL, FOLLOWING LOCAL, STATE AND FEDERAL REGULATIONS
<b>SECTION VIII - SPECIAL PROTECTION INFORMATION</b>	
<b>Eye Protection</b>	WHEN EYE CONTACT MAY OCCUR, WEAR SAFETY GLASSES CHEMICAL SPLASH GOGGLES.
<b>Skin Protection</b>	WEAR RUBBER GLOVES.
<b>Ventilation</b>	NORMAL ROOM VENTILATION.
<b>Respiratory Protection</b>	NONE REQUIRED
<b>Other Protection</b>	NEOPRENE APRON AND GLOVES
<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
<b>Other Precautions</b>	SAFETY SHOWER, EYE BATH AND WASHING FACILITIES SHOULD BE AVAILABLE.
<b>PREPARED BY: David Brunton, Chemist</b>	
Disclaimer of Liability. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Conforms to OSHA 174 , Sep. 1985.	