

**ETOWAH CHEMICAL
SALES & SERVICE**

DIVISION OF H. P. W. SPECIALTIES, INC.
2618 Forrest Avenue
Gadsden, Alabama 35904-0416



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

HEALTH	2
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	C

Material Safety Data Sheet

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

SECTION I - IDENTIFICATION

Product Name	Brighter----- Step 1	Date last Revised	AUG 2009
Chemical Family	MILD ACID CLEANER	Item Number	ETC-1034
Proper D.O.T. Shipping Name	Corrosive Liquid n.o.s.(Contains Ammonium Bifluoride)		
D.O.T. Hazard Classification	8, UN 1760, PG III		

SECTION II- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
<3	Ammonium Hydrogen Fluoride	NE	NE	1341-49-7
	Balance non-hazardous ingredients			

SECTION III - PHYSICAL DATA

Boiling Point	216 DEG. F	pH (Conc.)	2.1
Solubility In Water	COMPLETE	pH (Use Dilution)	3.5
% Volatility By Weight	> 85	Evaporation Rate	WATER 1.0
Specific Gravity	1.035	Physical Form	LIQUID
Appearance And Odor	CLEAR, COLORLESS, BLUEBERRY ODOR		

SECTION IV- FIRE AND EXPLOSION DATA INGREDIENTS/IDENTITY

Flash Point	NONE
Extinguishing Media	N/A
Flammable Limits	N/A
Special Fire Fighting Procedures	NORMAL PROCEDURES SHOULD BE EMPLOYED
Unusual Fire and Explosion Hazards	NO DATA

SECTION V- REACTIVITY DATA

Stability	STABLE
Conditions to Avoid	OXIDIZING AGENTS
Incompatibility	OXIDIZING AGENTS
Hazardous Decomposition Products	OXIDES OF CARBON
Hazardous Polymerization	WILL NOT OCCUR

SECTION VI - HEALTH HAZARD	
Routes(s) of Entry	Inhalation? Yes Skin? NO Ingestion? NO
Health Hazards (Acute and Chronic)	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.
Carcinogenicity	NTP? NO IARC Monographs? NO OSHA Regulated? NO
Emergency Aid and First Aid Procedures	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.
SECTION VII - SPILL OR LEAK PROCEDURES	
Spill Response	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.
Waste Disposal Method	DILUTE WITH WATER, ADJUST pH WITH SODIUM BICARBONATE TO A pH ABOVE 6.0, THEN FLUSH TO SANITARY SEWER . FOLLOWING LOCAL, STATE AND FEDERAL REGULATIONS. FOR LARGE SPILLS INCINERATE IN A FURNACE WHERE PERMITTED FOLLOWING LOCAL STATE AND FEDERAL REGULATIONS.
SECTION VIII - SPECIAL PROTECTION INFORMATION	
Eye Protection	WEAR SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES.
Skin Protection	NEOPRENE OR OTHER PROTECTIVE GLOVES
Ventilation	NORMAL ROOM VENTILATION.
Respiratory Protection	NONE REQUIRED IN NORMAL CONDITIONS. WHEN EXCESSIVE MISTS ARE GENERATED ABOVE TLV'S USE A RESPIRATOR.
Other Protection	RUBBER BOOTS AND RUBBER APRONS WHEN HANDLING.
SECTION IX - SPECIAL PRECAUTIONS	
Precautions in Handling and Storage	AVOID BREATHING VAPORS AND MISTS. KEEP OUT OF REACH OF CHILDREN. STORE AT ROOM TEMPERATURE . RINSE CONTAINER BEFORE DISCARDING.
Other Precautions	EYEWASH FACILITY AND SAFETY SHOWER IN IMMEDIATE AREA.
PREPARED BY: David Brunton, Chemist	
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