

**ETOWAH CHEMICAL SALES & SERVICE**

DIVISION OF H. P. W. SPECIALTIES, INC.  
 2618 FORREST AVENUE  
 GADSDEN, ALABAMA 35904-0416  
 256-547-7527

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**

**SECTION I -**  
 Product

**IDENTIFICATION**

<b>Renew Step 2</b>	<b>Date</b>	OCT 2007
24 Hour Emergency Telephone Number: (800) 535-5053		
<b>Chemical</b>	<b>Item</b>	ETC-1450
<b>Proper D.O.T.</b>	CORROSIVE LIQUID, n.o.s.	
<b>D.O.T.</b>	8, UN 1760, PG II, (contains Sodium Hydroxide)	

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY**

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
< 10	SODIUM HYDROXIDE	2mg/m3	500	1310-73-2
< 3	ETHYLENE DIAMINE TETRAACETATE, SODIUM	N/A	330	64-02-8
Balance non-hazardous ingredients				

**SECTION III - PHYSICAL DATA**

<b>Boiling Point</b>	220 DEG. F	<b>pH (Conc.)</b>	13.7
<b>Solubility In Water</b>	COMPLETE	<b>pH (Use Dilution)</b>	12.0
<b>% Volatility By Weight</b>	90	<b>Evaporation Rate</b>	WATER 1.0
<b>Specific Gravity</b>	1.14	<b>Physical Form</b>	LIQUID
<b>Appearance And Odor</b>	DARK BROWN LIQUID, SLIGHT SURFACTANT ODOR		

**SECTION IV - FIRE AND EXPLOSION DATA**

<b>Flash Point</b>	NONE
<b>Extinguishing Media</b>	N/A
<b>Flammable Limits</b>	N/A
<b>Special Fire Fighting Procedures</b>	CONCENTRATED PRODUCT CAN REACT WITH ALUMINUM, ZINC AND MAGNESIUM TO RELEASE HYDROGEN GAS WHICH CAN
<b>Unusual Fire and Explosion</b>	NO DATA

**SECTION V - REACTIVITY DATA**

<b>Stability</b>	STABLE
<b>Conditions to Avoid</b>	EXTREME HEAT

<b>Incompatibility</b>	AVOID: NON-FERROUS METALS, SKIN, ACID
<b>Hazardous Decomposition Products</b>	NO DATA
<b>Hazardous Polymerization</b>	WILL NOT OCCUR

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<b>SECTION VI - HEALTH HAZARD</b>	
<b>Routes(s) of Entry</b>	<b>Inhalation? NO Skin? NO Ingestion? 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-INTESTIONAL TRACT. INHALATION: EXCESSIVE INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION.
<b>Carcinogenicity</b>	<b>NTP? NO IARC NO OSHA Regulated? 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
<b>Waste Disposal Method</b>	DILUTE WITH WATER AND ADJUST pH WITH DILUTE ACID TO A pH BELOW 9.0, 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 RUBBER GLOVES.
<b>Ventilation</b>	NORMAL ROOM VENTILATION.
<b>Respiratory Protection</b>	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>	KEEP OUT OF REACH OF CHILDREN. STORE AT ROOM TEMPERATURE . RINSE CONTAINER BEFORE DISCARDING. STORE
<b>Other Precautions</b>	DO NOT USE UNDILUTED (AT LEAST 50 TO 1) ON ALUMINUM AND

**PREPARED BY: David Brunton, Chemist**

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