

**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>X-88</b>	<b>Date last Revised</b>	AUG 2009
<b>Chemical Family</b>	ACID CONCRETE CLEANER	<b>Item Number</b>	
<b>Proper D.O.T. Shipping Name</b>	CORROSIVE LIQUID, n.o.s.		
<b>D.O.T. Hazard Classification</b>	8, UN-1789, PG II, (HYDROCHLORIC ACID SOLUTION) BIODEGRADABLE		

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

% By Weight	Material	PEL	T. L. V.	C. A. S. No.
< 65.0	HYDROCHLORIC ACID	5ppm	5ppm	7647-01-0
	Balance non-hazardous ingredients			

## SECTION III - PHYSICAL DATA

<b>Boiling Point</b>	223 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>	1.09	<b>Physical Form</b>	LIQUID
<b>Appearance And Odor</b>	CLEAR, PURPLE , SHARP 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   Skin? YES   Ingestion? NO</b>
<b>Health Hazards (Acute and Chronic)</b>	<b>EYES: WILL CAUSE BURNS AND DAMAGE VERY RAPIDLY. SKIN: WILL CAUSE BURNS. INHALATION: VAPORS ARE IRRITATING TO MUCOUS MEMBRANE. MIST MAY CAUSE PULMONARY EDEMA. INGESTION: RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANES, CAN RESULT IN DEATH.</b>
<b>Carcinogenicity</b>	<b>NTP? NO   IARC Monographs? NO   OSHA Regulated? NO</b>
<b>Emergency Aid and First Aid Procedures</b>	<b>EYES: FLUSH WITH WATER FOR 20 MINUTES WHILE CALLING FOR IMMEDIATE MEDICAL ATTENTION. SKIN: FLUSH WITH RUNNING WATER AND IF PROLONGED SKIN CONTACT, SEEK MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. INGESTION: DO NOT INDUCE VOMITING. DILUTE WITH WATER. GIVE MILK OF MAGNESIA. 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 RCRA.
<b>Other Precautions</b>	SAFETY SHOWER, EYE BATH AND WASHING FACILITIES SHOULD BE AVAILABLE.
<b>PREPARED BY: David Brunton, Chemist</b>	
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