

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special-			HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection- B or G <i>(Depending on Conditions)</i>		
Manufacturer's Name: Ankem Inc. Address: 3333 Earhart #240 Carrollton, TX 75006			DOT Hazard Classification: Cleaning Compounds Corrosive liquid n.o.s. (Hydrochloric Solution),8,UN1760, PGII Identity (trade name as used on label): Reverse A Crete®		
Date Prepared: 09/27/00			MSDS Number: NA Revision - 6		
Information Calls: (972)720-0400 EMERGENCY RESPONSE NUMBER: 1(800)424-9300			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
Hydrogen Chloride (Aqueous)	7647010		5ppm	5ppm	
All other ingredients are proprietary trade secrets and/or (Non-Hazardous)					
*** Special Metal Corrosion Protectors ***					
*** Special Degreasing Agents ***					
*** Special Detergents & Surfactants ***					
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: 212+			Specific Gravity (H2O=1): 1.2		
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D		
Vapor Density (Air = 1): N/D			Evaporation Rate (water = 1): 1.0		
Solubility in Water: 100%			Water Reactive: No		
Appearance and Odor: Purple liquid, pungent odor					

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible.	SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed containers.	
EXTINGUISHER MEDIA: Use media appropriate for surrounding fire.		
Unusual Fire & Explosion Hazards: Latent fire hazard due to generation of hydrogen gas if in contact with metals.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): Polished Aluminum, Other Bare Metals (Whiting or Streaking occurs), Oxidizers, Ceramics	Conditions to Avoid: None
Hazardous Decomposition Products: N/A	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS	
Inhalation: Inhalation of mist or fume will cause irritation of contacted mucous membranes or respiratory tissue.	
Eye Contact: Can cause severe burns to eyes.	Skin Contact: Can cause skin burns
Ingestion: Will cause severe GI tract distress. Give four glasses of water or milk and refer to physician as soon as possible.	
CHRONIC EFFECTS: None known.	
Medical Conditions Generally Aggravated by Exposure: None known.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Flush with water for 15 minutes. Seek medical attention.	
Skin Contact: Remove contaminated clothing. Flush skin with 15 minutes of soap & water.	
Inhalation: Remove to fresh air	
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.	

SECTION 6 – CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): Avoid breathing vapor/organic.	
Protective Gloves: Rubber	Eye Protection: Chemical goggles or glasses required.
Ventilation Requirements: Use with adequate ventilation or organic respirator.	
Other Protective Clothing & Equipment: Eyewash station and drench hose.	
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling.	
SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE	

Steps To Be Taken If Material Is Spilled Or Released: Collect spilled material neutralize with soda ash & wash off residue with water.

Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.

Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat and cold.

Other Precautions &/or Special Hazards: **KEEP OUT OF REACH OF CHILDREN.** Read & follow label directions.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only