

HMIS CODES: H - 3 F - 0 R - 0 P -
 NFPA RATING: H - 3 F - 0 R - 0 Spec-

IDENTITY AND MANUFACTURER'S INFORMATION						
PRODUCT NAME DESCALER			PRODUCT TYPE: Scum & Scale Remover DOT CLASS: Corrosive Liquid, Acidic, Inorganic, NOS, 8 (1 gal or smaller: Consumer Commodity, ORM-D)			
MANUFACTURED FOR: DYNACCO, INC. PO BOX 27 17461 - 147 TH ST. S.E. MONROE, WA 98272		INFORMATION PHONE: 360-794-8974				
		24-HOUR EMERGENCY: CHEM-TEL (800) 255-3924				
		DATE PREPARED: February 25, 2004				
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 **
HYDROCHLORIC ACID		7647-01-0	Yes	5	5	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: >212 °F		Specific Gravity (H₂O=1): 1.06-1.08				
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature) 75°F: 26m				
Vapor Density (Air = 1): N/A		Evaporation Rate (water = 1): 1.0				
Solubility in Water: Total		Water Reactive: No				
Appearance and Odor: Clear, amber fluid with acrid 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): None		EXTINGUISHER MEDIA: Non-combustible				
SPECIAL FIRE FIGHTING PROCEDURES: None						
Unusual Fire & Explosion Hazards: Avoid exposure to metals, oxidants which might produce flammable hydrogen gas.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE		HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR				
Incompatibility (Mat. to avoid): Bases, metals, mercuric sulfate, carbides of Ca, Cs, Rb.		Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat.				
Hazardous Decomposition Products: Hydrogen gas (which is extremely flammable).						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [X] EYE [] NOT HAZARDOUS						
ACUTE EFFECTS						
Inhalation: Irritant causing burning, choking, coughing, headaches.						
Eye Contact: Irritation, severe burns & permanent damage including blindness.			Skin Contact: Burning, irritation and dermatitis.			
Ingestion: Unlikely route, causes severe burns to internal organs.						
CHRONIC EFFECTS: None known.						
Medical Conditions Generally Aggravated by Exposure: Skin, eye, mucous membrane irritation.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for 15 minutes. Get medical attention.						
Skin Contact: Remove contaminated clothing. Wash with water for 15 minutes.						
Inhalation: Remove to fresh air. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): Approved self-contained breathing apparatus when air concentrations exceed 100 ppm HCL vapors.						
Protective Gloves: Neoprene		Eye Protection: Chemical goggles and/or face shield.				
Ventilation Requirements: As necessary to maintain HCL vapors below 5 ppm at all times.						
Other Protective Clothing & Equipment: Neoprene or PVC rain suit & boots in case of fire.						
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: Contain fluid by diking. Neutralize with soda ash or diluted caustic soda.						
Waste Disposal Methods: Wash neutralized material down the sewer.						
Precautions To Be Taken In Handling & Storage: Store in original container or acid-resistant containers. Keep container sealed when not in use. Shelf life one year. Store in cool, bare metal free area.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions. Do not store near strong alkalis or other reactive metals.						

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