MATERIAL SAFETY DATA SHEET

Western Environmental Services, Inc. P.O. Box 9035 Scottsdale, AZ 85252

GENERAL INFORMATION NUMBER: (602) 234-8873

REVISION DATE: November 19, 2002 DATE OF ISSUE: March 19, 2004

IluminatorRODUCT CODE: 0103CHEMICAL FORMULATION: Inorganic acid cleanerFPA HAZARD IDENTIFICATION SYSTEM: HEIAZARD RATING:4 - Extreme; 3 -			FLAMMABILITY: Moderate; 1 - S				E ACTIVITY : 0 - Insignificar				
	II - Haz	ardous Ingredi	ents								
<u>SUBSTANCE</u> Sulfuric Acid Hydrofluoric Acid	V APPROX <u>%</u> 10.0-20.0 5.0-10.0	Values reported as T OSHA <u>PEL</u> 1 mg/m ³ 3 ppm	FWA unless no ACGIH <u>TLV</u> 1 mg/m ³ 3 ppm C		A 40 CF <u>355</u> Y Y	T R: <u>372</u> Y Y	<u>CAS #</u> 7664-93-9 7664-39-3				
 PEL: Permissible Exposure N/A: Not Applicable 302: CERCLA List of Hazar 355: SARA TITLE III / List 372: SARA TITLE III / List 	N/D : Not Der rdous Substances and I of Extremely Hazardo of Toxic Chemicals su	Reportable Quantit ous Substances for ubject to Release R	Emergency Pla Reporting (Com	stablished 02.4). anning ar	l nd Notifi	Y : Yes cation (4					
		Physical Data									
		FIC GRAVITY (WATER = 1): 1.139									
	/11	VOC CONTENT (% by weight): None EVAPORATION RATE (WATER = 1): ~ 1.0)				
VAPOR PRESSURE (mm Hg): N			RATION DA	TF AVA	TFP -						
VAPOR PRESSURE (mm Hg): N VAPOR DENSITY (AIR = 1): N/I	D	EVAPO		TE (WA	TER =	1):~1.0					
VAPOR PRESSURE (mm Hg): N VAPOR DENSITY (AIR = 1): N/I SOLUBILITY IN WATER: Solut	D ble	EVAPO pH: < 1	.0	ATE (WA	TER =	1):~1.0					
VAPOR DENSITY (AIR = 1): N/I	D ble ear, slight yellow liquio	EVAPO pH: < 1	.0 id odor.	ATE (WA	ATER =	1): ~ 1.0					

UNUSUAL FIRE AND EXPLOSION HAZARD: Acid may react with metals to create explosive hydrogen accumulations. Fire may produce toxic fumes. Product generates heat upon addition of water, with possible spattering.

INCOMPATIBILITY: Alkaline materials, metal salts, oxidizing materials and organic materials.

CONDITIONS TO AVOID: Do not mix with chlorine bleach, ammonia or any other cleaning chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can produce a wide variety of toxic gases and vapors. HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X **SKIN CONTACT: X INGESTION: X** INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None. **EFFECTS OF OVEREXPOSURE**

IF IN EYES: DANGER Corrosive-Severe irritation, burns, destruction of tissue, blindness.

IF ON SKIN: DANGER Corrosive-Severe irritation, deep ulcerations that may not be immediately painful or evident. Hydrofluoric acid will penetrate the skin and attack underlying tissues and bone. Large burns may also cause hypocalcemia and other toxic effects which may be fatal.

IF SWALLOWED: MAY BE HARMFUL OR FATAL IF SWALLOWED. Severe burns, destruction of tissue. Small amounts or dilute solutions fatal hypocalcemia and systemic toxicity is likely to occur unless medical treatment is immediately obtained.

IF INHALED: Short-term exposure causes nose, throat & respiratory irritation which may delayed for several hours. Long-term exposure causes nose and throat burns, lung inflammation, pulmonary edema and fatal hypocalcemia.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain immediate medical attention. IF ON SKIN: Flush with plenty of cool water for at least 15 minutes while removing contaminated clothing and shoes. Pay close attention to area under nails. Obtain medical attention immediately! Follow by immersing affected skin in an ice cold solution of magnesium sulfate (Epsom Salt) or using a calcium gluconate gel.

IF SWALLOWED: DO NOT INDUCE VOMITING. Give large quantities of water followed with several glasses of milk or several ounces of milk of magnesia. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

IF INHALED: Remove person to fresh air. Administer artificial respiration if indicated. If breathing is difficult, give oxygen. Keep person warm and quiet. Obtain medical attention immediately.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations. LOCAL: Recommended

VENTILATION

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Chemical goggles and/or face shield.

OTHER PROTECTIVE EQUIPMENT: Protective clothing, emergency shower and eve wash station.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Corrosive material. Store in a cool, dry place away from alkaline materials and reactive chemicals. Do not mix with any other cleaning chemicals. Always add this product to water, never add water to this product.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: Compounds, cleaning liquid (hydrofluoric acid, sulfuric acid) **DOT ID NUMBER:** NA1760 **DOT PACKING GROUP: I** DOT CLASS: 8

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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Prepared by: PMR

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MECHANICAL: Recommended

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