

MATERIAL SAFETY DATA SHEET

Section 1 - Material Identity	
Product Name MSR Mineral Stain Remover #5219	Product Use: CLEANING COMPOUND
Manufacturer(s) Supplier (s) Name & Address	Telephone Number: (215) 698-0500
ARDEX LABORATORIES, INC. 2050 BYBERRY ROAD PHILADELPHIA , PA 19116	Days: (215) 698-0500 Nights: CHEMTREC: 800/424-9300
DOT Proper Shipping Name Corrosive liquids, toxic, n.o.s., (Containing Hydrofluoric Acid & Hydrochloric Acid) 8, UN 1790, PGIII	
CORROSIVE	

Section 2 - Physical & Chemical Characteristics		
	Solubility in Water by Weight: MISCIBLE	Boiling Point: 105-300 DEG. C (220-572 F)
Appearance and Odor: hazy-cloudy ,THICK LIQUID WITH A CHARACTERISTIC SHARP & floral ODOR.	Specific Gravity: 1.05-1.10 (@20 C)	Freezing Point 32 F
Vapor Pressure at 20EC: 12.5 (@ 20 C)	Percent Volatile by Volume <90%	Evap. Rate (Butyl Acetate=1): N/A

Section 3 -Ingredients & Specifications				
Materials	%	TLV	Hazard	CAS Number
Hydrochloric Acid	Less than 2%	1 mg/m3		7647-01-0
NONIONIC SURFACTANT		Not Regulated		9002-93-1
HYDROFLUORIC ACID	Less than 3%	3 ppm		7664-39-3
2-BUTOXYETHANOL		25 ppm in air		111-76-2
WATER				

Section 4 - Fire & Explosion Hazard Data	
Flash Point & Method: NONE	
Flammable Limits in Air % by volume:	Lower: N/A Upper: N/A
Extinguishing Media: Any	
Special Fire Fighting Procedures: N/A	
Unusual Hazards: N/A	

Section 5 – Health Hazard Data	
Route of Entry	a) Skin b) eyes:
Effects of Acute Exposure:	a) Skin Contact: EXTREMELY IRRITATING. PENETRATES THE SKIN, RAPIDLY DESTROYING DEEPER SOFT TISSUES AND BONE. RAPIDLY ABSORBED INTO BLOODSTREAM TO INTRODUCE FLUORIDE POISONING (e.g., CARDIAC EDEMA.)
<u>HEALTH:</u> 3	b) Eye Contact: EXTREMELY IRRITATING AND DAMAGING. RAPIDLY DESTROYS CORNEAL TISSUE TO PRODUCE POSSIBLE PERMANENT VISUAL DISTURBANCES AND/OR BLINDNESS.
<u>FLAMMABILITY:</u> 0	c) Swallowing: SEVERE POISON. CAUSES SHOCK, COLLAPSE AND CONVULSIVE SEIZURES. TOXIC TO INTERNAL ORGANS AFFECTING INTERNAL ORGANS (BONES, KIDNEYS, HEART, LIVER.)
<u>PHYSICAL HAZARD:</u> 2	d) Skin Absorption: HAVE A 0.13% SOLUTION OF ZEPHIRAN CHLORIDE (AVAILABLE AT MOST PHARMACIES) READILY ACCESSIBLE. PROMPTLY FLUSH AREA WITH WATER FOR 15-MINUTES. IMMEDIATELY SOAK AFFECTED AREA WITH A 0.13% SOLUTION OF ZEPHIRAN CHLORIDE BY IMMERSION OR WITH WETTED TOWELING (REFRESH TOWELING REGULARLY). DO NOT USE ZEPHIRAN CHLORIDE SOLUTION IN OR AROUND EYES. IF CONTACT WITH CLOTHING OCCURS, REMOVE THE CLOTHING & RINSE THE AREA WITH WATER FOR A CONSIDERABLE TIME. GET MEDICAL ATTENTION IMMEDIATELY.
<u>PERSONAL PROTECTION:</u> J	

*	e) Inhalation: FINE MIST PRODUCES RESPIRATORY IRRITATION; DUST TLV 1mg/m3 OF AIR (AS H2SO4). AT HIGHER AMBIENT TEMPERATURES EXTREMELY IRRITATING VAPORS OF HYDROGEN FLUORIDE SULFURIC ACID FORMED.
Chronic Effects of Overexposure:	PROLONGED CONTACT MAY RESULT IN HYPOCALCEMIA, WHICH SHOULD BE TREATED BY A PHYSICIAN IMMEDIATELY. REPEATED EXPOSURE CAN HAVE CUMULATIVE EFFECTS. ARDEX ADVOCATES LIMITING EXPOSURE TO ALL CHEMICAL PRODUCTS. NTP, IARC OR OSHA HAS NOT IDENTIFIED THIS MATERIAL AS A CARCINOGEN.
Other Health Hazards:	N/A
Emergency and First Aid Procedures:	a) Skin: HAVE A 0.13% SOLUTION OF ZEPHIRAN CHLORIDE AVAILABLE. PROMPTLY FLUSH AREA WITH WATER FOR 15-MINUTES. IMMEDIATELY SOAK AFFECTED AREA WITH A 0.13% SOLUTION OF ZEPHIRAN CHLORIDE BY IMMERSION OR WITH WETTED TOWELING. GET MEDICAL ATTENTION IMMEDIATELY.
	b) Eyes: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS CHEMICAL.
	c) Swallowing: If the person is conscious, give large quantities of water to dilute. Do not attempt to induce vomiting. Get medical attention immediately.
	d) Inhalation: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP THE AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

Carcinogen Evaluation N/A

Section 6 - Reactivity Data

Stability -	Yes
Conditions to Avoid for Stability	See below
Incompatibility (Materials to Avoid) -	Strong Oxidizers. Metals. Strong Bases.
Hazardous Polymerization -	Will not occur
Hazardous Decomposition/Byproducts	Toxic Gases (such as Hydrogen Fluoride, Sulfuric Acid, Sulfur Trioxide, Carbon Monoxide.)

Section 7 - Spill or Leak Procedures

Release/Spill Procedures	VENTILATE AREA. ABSORB INTO NON-REACTIVE MEDIA SUCH AS DIATOMACEOUS EARTH OR VERMICULITE; SWEEP INTO NON-REACTIVE VESSEL (I.E., STEEL DRUM OR PAIL)
	WASTE DISPOSAL METHOD: DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

Section 8 - Special Protection Information

Protective Equipment	Eyes: USE DUST-AND SPLASH-PROOF SAFETY GOGGLES WHERE THERE IS ANY POSSIBILITY OF LIQUID, MIST OR DUST CONTACTING THE EYES.
	Respirator: RECOMMENDED; DUST MASK
	Gloves: WEAR IMPERMEABLE GLOVES (BUTYL OR HEAVY VINYL LATEX TYPE)
Ventilation	Other: PROTECTIVE EQUIPMENT – IF POSSIBILITY EXISTS FOR SPLASHING WEAR FACEGUARDS WITH SIDE SHIELDS. USE RESPIRATOR WHEN WORKING IN A TOTALLY CLOSED SYSTEM.
	General Mechanical: None required
	Other: USE IN A WELL VENTILATED AREA

Section 9 - Special Precautions

Handling & Storage	General: N/A
	Other:

Section 10- Other Information

The information contained herein is based on data considered accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility for personal injury or property damage to vendees, users or third parties caused by the material. We also do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Prepared By:

ARDEX LABORATORIES, INC.

New/Revision Date: 10/09/06