

**NICKEL ETCHANT NE-9**

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**MATERIAL SAFETY DATA SHEET**

SECTION 1		PRODUCT IDENTIFICATION		HAZARD RATING	
<b>PRODUCT NAME:</b> Nickel Etchant NE-9		<b>HEALTH</b>	<b>FIRE</b>	<b>REACTIVITY</b>	<b>OTHER</b>
<b>MANUFACTURER'S NAME:</b> Acton Technologies, Inc.		2	0	2	
<b>CHEMICAL FAMILY:</b> Inorganic Acid					
<b>FORMULA:</b> Proprietary blend of Deionized Water, Sulfuric Acid and Ceric Ammonium Nitrate					
SECTION 2		HAZARDOUS INGREDIENTS			
<b>INGREDIENT</b>	<b>C.A.S. NUMBER</b>	<b>% VOLUME</b>	<b>TLV (UNITS)</b>		
Sulfuric Acid 70%	7664-93-9	< 10%	2 PPM		
SECTION 3		PHYSICAL DATA			
<b>VAPOR DENSITY:</b> N/A		<b>PERCENT VOLATILE:</b> N/A			
<b>SOLUBILITY IN WATER:</b> Complete		<b>SPECIFIC GRAVITY:</b> 1.06			
<b>EVAPORATION RATE:</b> N/A		<b>ODOR:</b> N/A			
<b>APPEARANCE:</b> Reddish-Orange Liquid					
SECTION 4		FIRE AND EXPLOSION HAZARD DATA			
<b>FLASHPOINT:</b> None		<b>AUTO IGNITION TEMPERATURE:</b> N/A			
<b>FLAMMABLE LIMITS IN AIR:</b> N/A		<b>EXTINGUISHING MEDIA:</b> None			
<b>FIRE FIGHTING PROCEDURES:</b> None- Will Not Support Combustion. Use an abundance of water in case of spills.					
SECTION 5		HEALTH HAZARD DATA			
<b>PERMISSIBLE EXPOSURE DATA:</b> No Data					
<b>EFFECTS OF OVEREXPOSURE:</b> Slight chronic and systemic effects. These will disappear after end of exposure.					
<b>FIRST AID PROCEDURES:</b>					
<b>INHALATION:</b>	Remove person to fresh air.				
<b>EYES:</b>	Flush area with water. Seek medical attention at once.				
<b>SKIN:</b>	Flush with water immediately. Seek medical attention at once.				
<b>INGESTION:</b>	Seek medical attention at once.				

**SECTION 6 REACTIVITY DATA**

**STABILITY:** Stable

**CONDITION TO AVOID:** Avoid contact with reducing agents, extreme heat will build pressure.

**INCOMPATIBLE WITH:** Organic Materials, Reducing Agents.

**HAZARDOUS DECOMPOSITION:** Will Not Decompose.

**HAZARDOUS POLYMERIZATION:** Will Not Occur.

**SECTION 7 SPILL, LEAK AND DISPOSAL PROCEDURES**

**SPILLS, LEAKS:** Add water if necessary. Absorb spilled material with Sand, Clay, Earth or other absorbent material. Shovel into containers for disposal.

**DISPOSAL:** Comply with Local, State, and Federal Environmental Regulations.

**SECTION 8 SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** If excess of TLV, use NIOSH/MESA self contained breathing apparatus.

**VENTILATION:** Provide adequate ventilation.

**PROTECTIVE GLOVES:** Neoprene or Polyvinyl Chloride

**PROTECTIVE CLOTHING:** Wear impervious clothing and boots. Wear impervious apron.

**EYE PROTECTION:** Safety Glasses or Wear Splash Goggles and 8" Face Shield.

**SECTION 9 SPECIAL PRECAUTIONS AND COMMENTS**

**STORAGE AND HANDLING INFORMATION:**

Store in a cool dry area. Never add to hot water. Never store in glass or metal containers. Empty containers containing product residues and rinse extremely well with water before disposal. Containers should never be used for other products or for mixing.

**PROPER D.O.T. SHIPPING DESCRIPTION:**

NITRATE, INORGANIC, NOS, 5.1, UN1477, PGII, (CONTAINS: CERRIC AMMONIUM NITRATE, SULFURIC ACID)

**\*\*\*NOTICE\*\*\***

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