Chrome Etch

Active Ingredients:

1. Cerium Ammonium Nitrate 8-12 %
2. Nitric Acid 9 %
3. Water 78-82 %

Physical Data

- Boiling Point: >212°F (100°C)
- Vapour Pressure: 5.5 mmHg
- Vapour Density: (air=1) 1.3
- Specific Gravity: 1.16
- % volatiles: 88-92%
- Evaporation Rate: slower than ether
- Appearance: light yellow
- Odour: pungent odour.

Hazardous Decomposition

- Carbon Dioxide
- Carbon Monoxide
- Nitrogen Compounds
- Acid Vapours

Incompatibles

- Alkali Metals
- Strong Alkalis

Protective Equipment

Eyes

- Chemical splash goggles in compliance with OSHA regulations are advised.
Skin

- Wear impervious clothing and boots.
- Wear resistant Gloves.

Respiratory

- If workplace exposure limits of product or any component is exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control.

Special Precautions

- Ventilation: Provide mechanical or general exhaust to maintain levels below TLV.

Toxicity

Toxicity Data

- This material is subject to the reporting requirements of section 313 of SARA Title III.

Health

Effects:

- **Inhalation:** Can cause damage to nasal and respiratory passages.

- **Skin:** Exposure may cause irreversible skin damage. Symptoms include redness, swelling, burns, and severe skin damage.

- **Eye:** Exposure to liquid or vapours may cause irreversible eye damage. Symptoms may include stinging, tearing, redness, swelling, burning, corneal damage, and blindness.

- **Ingestion:** Can result in damage to throat and esophagus.

First Aid:

- **Eyes:** Remove to fresh air. Flush eyes out for at least 30 minutes while holding apart and seek medical attention immediately.

- **Skin:** Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, apply a clean dressing and seek immediate medical attention. If skin is not damaged, wash exposed area with soap and water. Launder contaminated clothing before reuse. If symptoms persist, seek medical attention.
• **Ingestion:** Do not induce vomiting. Vomiting will cause further damage to the throat. Dilute by giving water. Give milk of magnesia. Keep warm, quiet. Get medical attention immediately.

• **Inhalation:** If affected, remove individual to fresh air. Assist in breathing if necessary. Keep person warm, quiet, and get medical attention.

**PEL/ TWA**

**PEL**

• PEL not established for this material.
• STEL 2ppm (for Nitric Acid)

**TWA**

• TLV not established for this material.
• TWA 2.0 ppm, 8-hour

**Fire Hazard Data**

• **Extinguishing Media:** Use an extinguishing agent appropriate for surrounding fire.

• **Special Fire-Fighting Procedures:** Water may be used to extinguish fire by cooling, and diluting liquid with water. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

• **Unusual Fire Hazards:** Never use welding or cutting torch on or near drum (even empty) because product (even residue) can ignite explosively.

**Disposal**

**Spill Procedures:**

• Small Spill: absorb liquid on vermiculite, floor absorbent or other absorbent material.
• Large spill:
  1. Eliminate all ignition sources.
  2. Persons not wearing protective equipment should be excluded from spill area until cleanup has been completed.
  3. Stop spill at source.
  4. Prevent it from entering into drains, sewers and other bodies of water.
  5. Notify authorities as required for runoff.
  6. Pump or vacuum transfer spilled product into clean containers for recovery.
  7. Absorb unrecoverable product and transfer it to containers for disposal.