

TIN PLATING SOLUTION

1 - IDENTIFICATION

Distributor: Kerr Corporation
Address: 1717 West Collins Avenue
City, State, Zip: Orange, CA 92867
Telephone: 1-800-KERR-123
Emergency: Chemtrec 1-800-424-9300
International 1-703-527-3887
Date Prepared: September 6, 2005

2 - COMPOSITION INFORMATION

Hazardous Ingredients

	<u>CAS#</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Sulfuric Acid	7664-93-9	1 mg/m ³	1 mg/m ³	< 5

Other Ingredients

Stannous Sulfate	7488-55-3	N/E	N/E	< 5
Diethylenetriamine	111-40-0	N/E	N/E	1-2
Water	7732-18-5	N/E	N/E	85-90

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: > 100 °C
Specific Gravity (H₂O = 1): 1.17 - 1.20
Vapor Pressure (mm Hg): N/D
Vapor Density (AIR = 1): N/D
Solubility in Water: Complete
Appearance and Odor: Colorless to light yellow liquid with and ammonia-like odor.

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A
Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire and Explosion Hazards: N/A

5 - REACTIVITY DATA

Stability: Stable
Conditions to Avoid: N/A
Incompatibility (Material to Avoid): Prolonged heating @ > 50 °C
Hazardous Decomposition Products: Oxides of nitrogen and carbon dioxide
Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

Routes of Entry:
Skin: May cause redness, pain and skin burns.
Eyes: May cause redness, pain and eye burns.
Inhalation: Inhalation is not an expected hazard unless misted or heated to high temperatures.
Ingestion: May cause burns to the mouth and throat.
Carcinogenicity - NTP: No
IARC Monographs: No OSHA Regulated Carcinogen: No

MATERIAL SAFETY DATA SHEET

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash with soap and water.
Eyes: Flush with water for 15 minutes. Contact physician.
Inhalation: Remove to fresh air. If irritation persists, contact physician.
Ingestion: Contact a physician.

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Absorb spills with inert material and transfer to suitable container for disposal.
Waste disposal method: Dispose of in accordance with all local, state and federal regulations.
Precautions to be taken in handling and storing: Store in a cool, dry place. Wash thoroughly after handling. Use according to directions.

9 - CONTROL MEASURES

Respiratory Protection: Use in a well ventilated area. Avoid breathing of vapors.
VENTILATION:
Local Exhaust: Adequate ventilation to maintain PEL
Mechanical (General): Should be sufficient
Protective Gloves: Nitrile, neoprene or vinyl
Eye Protection: Safety glasses with side shields
Other Protective Clothing or Equipment: None
Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

10 - TRANSPORTATION INFORMATION

Regulated: DOT, IATA, IMO
Proper Shipping Name: Battery fluid, Acid
Hazard Class: 8
Identification Number: UN2796
Packing Group: II
Label Requirement: Corrosive
Note: See 49CFR 173.4

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H3 F0 R0
[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;
2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

State RTK: New Jersey: Sulfuric acid is on a special health hazard substance list.

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.