

4801 North Ravenswood Avenue Chicago, IL 60640-4496 Phone: (773) 907-5181 Fax: (773) 907-5180 E-mail (techsupport@spctechnology.com)

Material Safety Data Sheet

(Non-Mandatory)

Identity: Lead Free Tip Tinner

SECTION I – Manufacturer's P/N's

1471 & 1472

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: OSHA PEL / ACGIH TIV / Other Limits Recommended / %Optional / Common Names)

50% Tin CAS NO 7440-31-5 2.0MG/M3 2.0MG/M3 50% Tin (SN) is in Suspension with Ammonium Phosphate CAS NO 7783-28-0 "Non-Hazardous" Ingredients

SECTION III - Physical/Chemical Characteristics

Boiling Point: 260°C Specific Gravity (H 2 O= 1): Solid Vapor Pressure (mm Hg): MMHGAT 20<0.01 Melting Point: 232°C-450°F Vapor Density (AIR =1): N/A Evaporation Rate (Butyl Acetate = 1): N/A Solubility in Water: Tin-Insoluble Ammonium Phosphate-Water Soluble Appearance and Odor: Silver Paste, Low Odor when heated 450°F (150°C)

SECTION IV - Fire and Explosion Hazard Data

 Flash Point (Method Used): None
 Flammable Limits: N/A
 LEL: N/A
 UEL: N/A

 Extinguishing Media: Dry Chemical or Equivalent Type Suitable for Metal Type Fires
 Special Fire Fighting Procedures: If Tin is Involved in Fire, Use Full Protective Clothing and NIOSH/MSHA Approx Self-Contained Breathing Apparatus Operated in Positive Pressure Mode.

 Unusual Fire and Explosion Hazards: None



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SECTION V - Reactivity Data

Stability: Unstable Stable ∑ Conditions to Avoid: Evaporation - Open containers may change concentrations. Incompatability (Materials to Avoid): Chlorine - Turpentine Hazardous Decomposition or Byproducts: At Temperatures Above the Melting Point, Metal Oxide Fumes May Be Evolved. Use Adequate Exhaust.				
Hazardous Polmerization			<u>X</u> Condit	tions to Avoid <u>X</u>
SECTION VI - Health Hazard Data				
Routes of Entry: Inhalation LD50 Skin N/A Ingestion LC50 Health Hazards (Acute and Chronic): Fumes Emitted During Use Can Cause Headache and Irritation of Mucous Membranes in the Eyes and Respiratory System. Carcinogenicity: NTP N/A IARC Monographs N/A OSHA Regulated N/A *Not Listed as a Carcinogen By NTP OSHA ACGIH Signs and Symtoms of Exposure: N/A OSHA Regulated N/A Medical Conditions Generally Aggravated by Exposure: Only When Heated Emergency and First Aid Procedures: Normal Hygiene and First Aid Procedures. (Wash with Soap and Water). Flush Eyes with Plenty of Water. Remove Victim to Fresh Air.				
SECTION VII - Precautions for Safe Handling and Use:				
 Steps to Be Taken in Case Material is Released or Spilled: Scoop or Sweep Up and Discard. Waste Disposal Method: According to Local Regulations, Tin May Have Value on Recycle Basis if Disposed of in a Permitted Disposal Site in Accordance with all Federal State and Local Disposal Regulations. Precautions to Be Taken in Handling and Storing: Avoid temperatures > 110°F Other Precautions: Avoid Breathing Fumes Generated During Use. 				
SECTION VIII - Control Measures				
Respiratory Protection (Specify Type): Usually Not Required . When Ventilation Is Not Adequate, Remove Smoke From Breathing Zone.				
Ventilation: Local Exhaust: Provide Adequate Ventilation to Meet TLV Special: N/A Mechanical (General): N/A Other: N/A Protective Gloves: N/A Eye Protection: N/A Protective Gloves: N/A Eye Protection: N/A Eye Protection: N/A Other Protective Clothing or Equipment: N/A Work/Hygienic Practices: Wash Hands Thoroughly Before Eating or Smoking. Free Protection: N/A NFPA Rating: Volume Protective Clothing or Equipment: N/A Volume Protective Clothing or Equipment: N/A				
C .	Health 1	Flammability 0	Reactivity 0	Personal Protection X