

MEL Chemicals[®] INC. MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION			
MANUFACTURER'S NAME	MEL Chemicals, Inc.		
ADDRESS	500 Barbertown Point Breeze Road, Flemington, NJ		
TRADE NAME	Tin Oxide		
SYNONYMS	Tin (IV) Oxide, Cassiterite		
CAS NUMBER	18282-10-5		
REGULAR PHONE NO. (908)782-5800	Emergency Telephone No. (908)782-5800		
2. HAZARDOUS INGREDIENTS			
MATERIAL OR COMPONENT			
Tin Oxide (as SnO ₂)	100%		
3. PHYSICAL DATA			
BOILING POINT (°F)	Sublimes 1800-1900 °C	SPECIFIC GRAVITY	6.95
VAPOR PRESSURE (mm Hg.)	ND	MELTING POINT(° C)	1630
SOLUBILITY IN WATER	Insoluble	VAPOR DENSITY	ND
APPEARANCE AND ODOR	White or slightly grey powder with no odor		
4. FIRE AND EXPLOSION DATA			
FLASH POINT (TEST METHOD)	Not flammable	AUTO IGNITION TEMPERATURE (°F)	Not Applicable
FLAMMABLE LIMITS IN AIR. % BY VOL. Not Flammable	LOWER	N/A	UPPER N/A
EXTINGUISHING MEDIA	Use Media suitable for surrounding fires, this material is not flammable		
SPECIAL FIRE FIGHTING PROCEDURES	None Known		
UNUSUAL FIRE AND EXPLOSION HAZARD	None Known		
5. HEALTH HAZARD INFORMATION			
FIRST AID: EYES:	Flush eyes with running water for at least 15 minutes. If irritation persists, seek medical aid.		
SKIN:	Flush affected area with water. If irritation persists seek medical aid.		
INHALATION:	Remove to fresh air. If breathing has stopped administer artificial respiration, seek medical aid immediately.		
INGESTION:	Wash mouth out with water. Do not induce vomiting, seek medical attention.		
EYES:	Abrasive Material, treat as a foreign object		
NATURE OF HAZARD : SKIN:	Abrasive material, can cause irritation		
INHALATION:	Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.		
INGESTION:	Considered non-toxic by ingestion		

EFFECTS OF OVEREXPOSURE ACUTE OVEREXPOSURE CHRONIC OVEREXPOSURE THRESHOLD LIMIT VALUE (TLV)	Coughing, Choking and Possibly irritating to respiratory tract. May result in Stannosis, a form of Pneumoconiosis. Tin Oxide (as SnO ₂) - NIOSH PEL : 2.0 mg/m ³ (TWA) IDLH - 400 mg/m ³
SKIN CONTACT:	Possible Irritant
EYE CONTACT:	Abrasive, mild irritant
INHALATION:	Possible respiratory irritant
INGESTION:	Considered non-toxic, NOT RECOMMENDED
6. REACTIVITY DATA	
CONDITIONS CONTRIBUTING TO INSTABILITY	Stable
INCOMPATIBILITY	Chlorine, Turpentine
HAZARDOUS DECOMPOSITION PRODUCTS	None Known
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION	Not Applicable
7. SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Take precautions to avoid creating and breathing dust. Dampen any spilled material, collect by vacuum or shovel and place into labeled container for disposal.
NEUTRALIZING CHEMICALS	None Required
WASTE DISPOSAL METHOD	Not defined as a hazardous waste under 40 CFR Part 261 of the Resource Conservation and Recovery Act (RCRA).
8. SPECIAL PROTECTION INFORMATION	
VENTILATION REQUIREMENTS	Use local exhaust ventilation to avoid inhaling dust.
SPECIFIC PERSONAL PROTECTIVE EQUIPMENT	Skin contact should be prevented by protective clothing. In all areas of dust concentration, dust masks should be provided, and in case of fumes, masks with proper canisters or supplied air respirators should be used.
RESPIRATORY:	NIOSH/MSHA Approved dust/particulate respirator is recommended.
EYES:	Safety glasses as a minimum.
GLOVES:	As with all chemicals, gloves should be worn to prevent excessive or repeated skin contact.
OTHER CLOTHING AND EQUIPMENT:	Long sleeve shirts or coveralls to minimize skin contact.
9. SPECIAL PRECAUTIONS	
HAZARD CLASSIFICATION INFORMATION - Not Regulated under the Department of Transportation DOT Hazard Class: _____ UN Number: _____	
HANDLING AND STORAGE MATERIALS AND COATINGS Suitable: Store in a cool, dry place. Avoid contact with water SARA TITLE III: Not Applicable TSCA : Tin Oxide is Listed on the TSCA Chemical Substance Inventory under CAS NO. 18282-10-5 Document #557.05.000.85 Revision #2 - May 22, 2000 JFB	