ME-TOZ Metal Tozları Ltd.Şti.(www.metoz.com.tr)
Altıntepe Mah. İlkBahar Çıkmazı Sk. No.3 K.2 D.3 Küçükyalı – Maltepe - İSTANBUL
Tel : +90 216 489 45 40, **Gsm** : +90 532 282 37 49, **E-mail** : info@metoz.com.tr

MATERIAL SAFETY DATA SHEET

1.) Product & Company Identification

Supplier	:	Me-Toz Metal Tozları Makina Yedek Parça San.Tic.Ltd.Şti. Altıntepe Mah. İlkbahar Çıkmazı Sk. No.3 K.2 D.3 Maltepe - İstanbul
Emergency Contact	:	TEL : 0090 216 489 45 40 GSM : 0090 532 282 3749
Manufacturer	:	Me-Toz Metal Tozları Makina Yedek Parça San.Tic.Ltd.Şti. Altıntepe Mah. İlkbahar Çıkmazı Sk. No.3 K.2 D.3 Maltepe - İstanbul
Product Name	:	Tin Powder

2.) Composition / Information on Ingredients

Composition %	:	Sn %99,50 min
Particle Shape	:	Irregular
Appearance	:	Silvery grey powder, with variable grade size

3.) Hazards Identification

Eye Hazards	:	Eye exposure to finely-divided forms of product may produce local irritation, conjunctivitis, and ulceration of the cornea.
Skin Hazards	:	May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Low hazard for usual industrial handling.
Ingestion Hazards	:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling. Ingested inorganic tin exhibits only moderate toxicity due to poor absorption and rapid tissue turnover. Ingestion of large amounts may cause gastrointestinal irritation, nausea, cramps, vomiting and diarrhea. May interfere with various enzyme systems. Inorganic tin salts may cause systemic effects on the central nervous system, heart and liver. It may also interfere with absorption and metabolism of biological essential enzyme systems.
Inhalation Hazards	:	Dust is irritating to the respiratory tract. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. When inhaled as a dust or fume, may cause benign pneumoconiosis.

ME-TOZ Metal Tozları Ltd.Şti.(www.metoz.com.tr)
Altıntepe Mah. İlkBahar Çıkmazı Sk. No.3 K.2 D.3 Küçükyalı – Maltepe - İSTANBUL
Tel : +90 216 489 45 40, **Gsm** : +90 532 282 37 49, **E-mail** : info@metoz.com.tr

MATERIAL SAFETY DATA SHEET

4.) First Aid Measures

Eye	:	Flush affected areas with water for at least 15 minutes. Seek medical assistance if necessary.
Skin	:	Remove contaminated clothing. Wash affected area with large quantities of water for at least five minutes. Seek medical assistance if necessary.
Ingestion	:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.
Inhalation	:	If signs and symptoms of toxicity are observed, remove subject from area, administer oxygen, and seek medical attention. Keep the subject warm and at rest. Perform artificial respiration if breathing has stopped.
Note to Physician	:	None of the Components of these products are acutely toxic by ingestion. If ingested, treat symptomatically. Inhalation of high levels of the component tin has been known to cause metal fume fever.

5.) Fire Fighting Measures

Fire and Explosion Hazards	:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media	:	Do NOT use carbon dioxide. If water is the only media available, use in flooding amounts. Use dry sand, dry chemical, soda ash or lime.
Fire Fighting Instructions	:	If fighting a fire in which these products are present, wear a self-contained breathing apparatus with full-facepiece operated in pressure-demand or other positive pressure mode.

6.) Accidental Release Measures

Clean up spilled material so as to minimize dispersion of dust. Wet sweeping or vacuuming using HEPA filtration are recommended methods.

7.) Handling and Storage

Handling Precautions	:	No special handling precautions are required.
Storage Precautions	:	Do not store in proximity to incompatible materials (see section #10).
Work/Hygienic Practices	:	To minimize the possibility of ingestion, wash hands and face before eating, drinking, or using cosmetics or tobacco.

8.) Exposure Controls / Personal Protection

Engineering Controls	:	Use appropriate ventilation (e.g., dilution, local exhaust) adequate to maintain concentrations of all Components to within their respective applicable standards.
Eye/Face Protection	:	Wear eye protection adequate to prevent contact with finely-divided forms of product and injury from the hazards of brazing. Plastic-frame spectacles with side shields and filter lenses (shade #3 or #4) are recommended.

ME-TOZ Metal Tozları Ltd.Şti.(www.metoz.com.tr)
Altıntepe Mah. İlkBahar Çıkmazı Sk. No.3 K.2 D.3 Küçükyalı – Maltepe - İSTANBUL
Tel : +90 216 489 45 40, **Gsm** : +90 532 282 37 49, **E-mail** : info@metoz.com.tr

MATERIAL SAFETY DATA SHEET

Skin Protection : Wear appropriate protective gloves and clothing to prevent skin injuries from the hazards of brazing and/or for prolonged or repeated contact with finely-divided material. Avoid flammable fabrics.

Respiratory Protection : If an exposure level(s) exceeds its applicable Standard, wear an approved respirator having a configuration (class, facepiece, filtermedia, assigned protection factor, etc.) appropriate to the concentration(s) of the contaminant(s) generated.

Ingridient (s) – Exposure Limits :		**OSHA PELs**	**ACGIH TLVs**
TIN	(as Sn)	2,0 mg/m^3 TWA	2,0 mg/m^3 TWA

9.) Physical and Chemical Properties

Appearance : Fine Powder
Particle shape : Irregular
Colour : Silvery grey
Odour : Odourless
Physical State : Solid
Chemical Type : Pure
Vapor Pressure : N/A
Vapor Density : N/A
Solubility : Slightly soluble in hot water

10.) Stability and Reactivity

Stability : Stable under normal temperatures and pressures. Oxidizes when exosed to air.
Hazardous Polymerization : will not occur
Conditions To avoid (stability) : Incompatible materials, dust generation, moisture, excess heat.
Incompatible Materials : Halogens, nitric acid, sodium peroxide, sulfur, copper nitrate, hydrochloric acid, tin chloride, potassium peroxide..
Hazardous Decomposition Products : Irritating and toxic fumes and gases, tin/tin oxides.

11.) Toxicological Information

Chronic /Carcinogenicity : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: Tumors were observed at the site of application when implanted into in rats (TDLo=395 mg/kg) and mice (TDLo=840 gm/kg), according to RTECS.

ME-TOZ Metal Tozları Ltd.Şti.(www.metoz.com.tr)
Altıntepe Mah. İlkBahar Çıkmazı Sk. No.3 K.2 D.3 Küçükyalı – Maltepe - İSTANBUL
Tel : +90 216 489 45 40, **Gsm** : +90 532 282 37 49, **E-mail** : info@metoz.com.tr

MATERIAL SAFETY DATA SHEET

12.) Ecological Information

In their intended manner of use, these Products should not be released into the environment, and adverse effects on ecosystems should not occur when recommendations for use, storage, and proper disposal are followed.

13.) Disposal Considerations

Dispose of unused or unusuable product in accordance with applicable Federal, State/Provincial, and local regulations.

14.) Transport Information

Shipment of these Products is not subject to USDOT/ICAO/IMO regulations.

15.) Regulatory Information

Control of Substances Hazardous to Health Regulations.

16.) Other Information

No Data Available…

Disclaimer

Although reasonable care has been taken in the preperation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of this product's use. Each individual must make his/her own determination as to the suitability of the information for such purpose(s) or use.

Metoz Metal Tozları Makine Yedek Parça San. Tic.Ltd.Şti.