

MATERIAL SAFETY DATA SHEET**Zinc Powder****Page 1 of 5****1.) Product & Company Identification**

Supplier : Me-Toz Metal Tozları Makina Yedek Parça San.Tic.Ltd.Şti.
Altintepe 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.
Altintepe Mah. İlkbahar Çıkmazı Sk. No.3 K.2 D.3 Maltepe - İstanbul
Product Name : Zinc Powder

2.) Composition / Information on Ingredients

Composition % : Zn %99 min
Particle Shape : Irregular
Appearance : Grey, with variable grade size

3.) Hazards Identification**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Substances/mixtures which, in contact with water, emit flammable gases Category 1
Pyrophoric solids Category 1

Label Elements

Signal Word : Danger
Hazard Statements : In contact with water releases flammable gases which may ignite spontaneously
Catches fire spontaneously if exposed to air



Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not allow contact with air.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep away from any possible contact with water, because of violent reaction and possible flash fire
Handle under inert gas. Protect from moisture.

Skin : Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages
Fire : In case of fire: Use CO₂, dry chemical, or foam for extinction
Storage : Store under an inert atmosphere Store in a dry place. Store in a closed container
Disposal : Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC) : Very toxic to aquatic life with long lasting effects
May form combustible dust concentrations in air

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Eye	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin	: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur
Ingestion	: Do NOT induce vomiting. Obtain medical attention.
Inhalation	: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Note to Physician	: Treat symptomatically

5.) Fire Fighting Measures

Suitable Extinguishing Media	: Dry sand, clay, approved class D extinguishers
Unsuitable Extinguishing Media	: DO NOT USE WATER, Carbon dioxide (CO ₂), Dry chemical, Foam
Autoignition Temperature	: 460 °C / 860 °F
Specific Hazards Arising from the Chemical	: Flammable. Fine dust dispersed in air may ignite. Pyrophoric: Spontaneously flammable in air. Water reactive. Contact with water liberates extremely flammable gases. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products	: Hydrogen
Protective Equipment and Precautions for Firefighters	: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPAHealth

1

Flammability

4

Instability

3

Physical hazards

W

6.) Accidental Release Measures

Personal Precautions	: Use personal protective equipment. Remove all sources of ignition. Avoid dust formation. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing.
Environmental Precautions	: Should not be released into the environment. See Section 12 for additional ecological information.
Methods for Containment and Clean Up	: Remove all sources of ignition. Do not expose spill to water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Use spark-proof tools and explosion-proof equipment. Avoid dust formation.

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Handling : Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Handle under an inert atmosphere. Do not allow contact with air. Do not allow contact with water. Keep away from open flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

Storage : Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Keep away from heat and sources of ignition. Keep away from water.

8.) Exposure Controls / Personal Protection

- Exposure Guidelines : This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
- Eye/Face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin Protection : Wear appropriate protective gloves and clothing to prevent skin exposure.
- Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- Engineering Measures : Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

9.) Physical and Chemical Properties

- Appearance : Grey Powder
- Particle shape : Irregular
- Colour : Grey
- Odour : Odourless
- Physical State : Powder Solid
- Melting Point : 419 °C / 786.2 °F
- Boiling Point : 907 °C / 1664.6 °F @ 760 mmHg
- Relative Density : 7,14
- Solubility : Insoluble in water
- Autoignition Temperature : 460 °C / 860 °F
- Molecular Weight : 65,36

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Stability	: Water reactive. Moisture sensitive. Air sensitive. Pyrophoric: Spontaneously flammable in air.
Hazardous Polymerization	: Hazardous polymerization does not occur.
Conditions To avoid (stability)	: Avoid dust formation. Incompatible products. Exposure to air. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	: Strong oxidizing agents, Strong acids, Strong bases, Amines
Hazardous Decomposition Products	: Hydrogen
Hazardous reactions	: Contact with water liberates extremely flammable gases. Pyrophoric: Spontaneously flammable in air.

11.) Toxicological Information

Chronic /Carcinogenicity : Not listed by ACGIH, IARC, Mexico, NTP, or OSHA.

12.) Ecological Information**Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Zinc powder - zinc dust (pyrophoric)	0.09 - 0.125 mg/L EC50 72 h 0.11 - 0.271 mg/L EC50 96 h	0.41 mg/L LC50 96 h 0.59 mg/L LC50 96 h 0.24 mg/L LC50 96 h 3.5 mg/L LC50 96 h 7.8 mg/L LC50 96 h 0.45 mg/L LC50 96 h 30 mg/L LC50 96 h 2.66 mg/L LC50 96 h 0.211 - 0.269 mg/L LC50 96 h 2.16 - 3.05 mg/L LC50 96 h	Not listed	0.139 - 0.908 mg/L EC50 48 h

13.) Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14.) Transport Information

	DOT	TDG	IATA	IMDG/IMO
UN-No	UN1436	UN1436	UN1436	UN1436
Proper Shipping name	Zinc Powder	Zinc Powder	Zinc Powder	Zinc Powder
Hazard Class	4.3	4.3	4.3	4.3
Subsidiary Hazard Class	4.2	4.2	4.2	4.2
Packing Group	II	II	II	II

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15.) Regulatory Information

Acute Health Hazard : Yes

Chronic Health Hazard : No

Fire Hazard : Yes

Sudden Release of Pressure Hazard : No

Reactive Hazard : Yes

16.) Other Information

No Data Available...

Disclaimer

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