# 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

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## 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 : Nickel Powder

# 2.) Composition / Information on Ingredients

Composition % : Ni %99,5 min

Particle Shape : Irregular

Appearance : Silvery 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)

Skin Sensitization Category 1
Carcinogenicity Category 2
Specific target organ toxicity - (repeated exposure) Category 1

Target Organs - Kidney, Blood

## **Label Elements**





### **Danger**

### **Hazard statements:**

H351 Suspected of causing cancer by inhalation

H372 Causes damage to organs through prolonged or repeated exposure by inhalation

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

### **Prevention**

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Use personal protective equipment as required.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention

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## 4.) First Aid Measures

Eye : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses.

: Wash with plenty of water and soap and rinse thoroughly. Remove contaminated Skin

clothing and shoes. Seek immediate medical attention. If skin irritation or rash

occurs: Get medical advice/attention.

**Ingestion** : Rinse mouth. Never give anything by mouth to an unconscious person. Call a

physician.

: Remove person to fresh air. If not breathing, give artificial respiration. Oxygen may **Inhalation** 

be administered if breathing is difficult. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed : skin contact: itching, ekzema

# 5.) Fire Fighting Measures

Suitable Extinguishing Media : Use water spray, foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

Specific Hazards Arising from

the Chemical

: N/A

: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. May oxidize to nickel oxide if exposed to high temperatures within a fire. Under special conditions nickel can react with carbon monoxide in reducing atmospheres to form Nickel Carbonyl, Ni(CO)4, a toxic gas. Metal powders when heated in reducing atmospheres may

become pyrophoric.

Hazardous Combustion Products: Nickel oxide fume, carbon dioxide and carbon monoxide

Advice for Firefighters

: LARGE FIRES: Do not scatter spilled material with high pressure water streams. Self contained breathing apparatus and suitable protective clothing required. Use water spray to keep the fire-exposed

container cool.

### 6.) Accidental Release Measures

**Personal Precautions** 

For non-emergency responders Avoid substance contact. Avoid

inhalation of dust Provide of sufficient ventilation

For emergency responders For suitable protective equipment refer to

Section 8

**Environmental Precautions**: Do not let enter drains, prevent release to the environment..

**Methods for Containment** 

and Clean Up

Collect spills by wet sweeping or vacuuming with the vacuum exhaust passing through a high efficiency particulate arresting (HEPA) filter if exhaust is discharged into the work place. Wear appropriate nationally approved respirators if collection and disposal of spills is likely to cause the concentration limits of airborne nickel to exceed

the locally prescribed exposure limits. Nickel containing material is

normally collected to recover nickel values.

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## 7.) Handling and Storage

**Handling**: Avoid substance contact. Do not breathe dust. Provide appropriate ventilation or local

exhaust system if dusts are generated. . Any unavoidable deposit of dust must be regularly removed. Wear appropriate respirator if handling is likely to cause the

concentration of airborne nickel.

**Storage**: Store locked up. Keep container tightly closed and sealed until ready for use. Store away

from acids or reactive substances.

## 8.) Exposure Controls / Personal Protection

Control Parameters : An indicatice, inhalable Nickel Occupational exposure Limit of 0.05 mg/m3 for

workers is given and justified by the CSR - instead of a DNEL-DMEL in the long term - local and systemic effects - inhalation risk characterisation for

Nickel-substances.

Eye/Face Protection : Safety goggles/face shield

Skin Protection : Protective gloves. Chemical resistant protective clothing.

Respiratory Protection : If exposed to dust concentrations above the exposure limit, use appropriate,

certified respiration protective equipment. Respiratory Protective equipment (FFP2) {approved with regard to EN 149} is required for unenclosed processes involving powders. Respiratory cartridges or canisters must be

changed following the recommendations of the supplier.

Engineering Measures : Provide exhaust ventilation or local exhaustion to keep the airborne

concentrations of vapours below their respective threshold limit value.

### 9.) Physical and Chemical Properties

Appearance : Solid Powder
Particle shape : Irregular
Colour : Silvery Grey
Odour : Odourless
Flammability Not flammable

Melting Point : 1453 °C
Initial Boiling Point : 2732 °C
Relative Density : 8.9 g/cm3

Solubility : Insoluble in water

Autoignition Temperature : Very fine divided metal can smoulder in the presence of oxygen or air

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### 10.) Stability and Reactivity

Reactivity : Stable under normal temperatures and pressures. Material does

not pose a dust explosion hazard

Chemical Stability : The product is stable under normal conditions (room temperature)

Hazardous Reactions : This product can react vigorously with acids to liberate hydrogen,

which can form explosive mixtures with air. Under special conditions nickel can react with carbon monoxide in reducing atmospheres to form nickel carbonyl, Ni(CO)4, a toxic gas.

Conditions To Avoid : Metal powders when heated in reducing atmospheres may become

pyrophoric.

Incompatible Materials : Violent reactions possible with strong acids, strong oxidizing

agents, acid anhydrides, In contact with nitrous acids and its salts

nitrosamines may be released.

Hazardous Decomposition Products: Hydrogen

## 11.) Toxicological Information

Acute toxicity	Value	Unit	Species
LD50 (oral)	9000	mg/kg bw	rat
LD50 (dermal)		N/A	
NOAEC (inhal)	10,2	mg/L air (66 min.) observe	d 14 days after exposure

skin corrosion/irritation : slight irritation serious eye damage/irritation : not classified

respiratory or skin sensitisation : sufficient data from human studies: May cause allergic skin reactions

germ cell mutagenicity : not classified, test with mammalian cells - negative

carcinogenicity : suspected of causing cancer by inhalation reproductive toxicity : not classified as toxic to reproduction

STOT-single exposure : not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure

by inhalation

aspiration hazard : not classified

Other information : Further hazardous properties cannot be excluded. The product should

be handled with the care usual when dealing with chemicals.

## 12.) Ecological Information

short term toxicity	Value (range)		Duration Species
LC50 - Fish	0.23 to 320 mg/L	96 h	Pimephales promelas - Danio rerio
LC50 - Invertebrates	0.013 to 4970 mg/L.	48 h	Ceriodaphnia dubia - Daphnia magna
IC50 - algae	12,6 - 424 μg/L	72 h	Selenastrum capricornutum (OECD 201)
EC50 (bacteria)	33 mg/L	48 h	activated sludge (STP)
long term toxicity	Value (range)		Duration Species
Fish - NOEC / L(E)C10	40 - 1379 μg/L		Danio rerio - oncorhinchus mykiss
Invertebrates NOEC /	1.4 - 1193.3 μg/L		Lymnea stagnalis - chironimus tentans
L(E)C10			
Algae: NOEC / EC10	12,6 - 425 μg/L		Scenedesmus accumunatus –
			Pseudokirchnerella subcapitata

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### 13.) Disposal Considerations

Chemicals and packages as waste must be disposed of in accordance with the respective national and local regulations. Containers should be cleaned of residual product before disposal. Consult your local or regional authorities. Do not contaminate ground or surface waters via drainage, by cleaning of equipment or disposal of wastes.

## 14.) Transport Information

	DOT	TDG	IATA	IMDG/IMO UN3089 Metal Powders, Flammable	
UN-No Proper Shipping name	UN3089 Metal Powders, Flammable	UN3089 Metal Powders, Flammable	UN3089 Metal Powders, Flammable		
Hazard Class	4.1	4.1	4.1	4.1	
Packing Group	II	II	II	II	

# **15.) Regulatory Information**

Acute Health Hazard : Yes
Chronic Health Hazard : Yes
Fire Hazard : No
Sudden Release of Pressure Hazard : No

Reactive Hazard : No

### 16.) Other Information

No Data Available...

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