



**P R O M E T S P. Z O O.**

**MATERIAL SAFETY DATA SHEET**

NICKEL

**1. IDENTIFICATION OF THE PRODUCT AND COMPANY IDENTIFICATION**

- 1.2 Company: ZTO Promet Sp. z o.o., ul. Uczniowska 21, 58-306 Wałbrzych, POLAND  
Telephone: (+)48 74 840 83 12  
Fax: (+)48 74 840 83 15  
E-mail: [promet@ztopromet.pl](mailto:promet@ztopromet.pl)
- 1.3 Telephone numbers in case of emergency: (+) 48 74 840 83 12

**2. INFORMATION ON INGREDIENTS / COMPOSITION**

2.1	<b>Ingredients</b>		
	<b>CAS-number</b>	<b>Element</b>	<b>% w/w</b>
	7440-02-0	Nickel	min 99
	<b>Formula</b>		
	Ni		

**3. HAZARDS IDENTIFICATION**

Limited evidence of a carcinogenic effect.

**4. FIRST AID MEASURES**

In normal form there is no need for specific first-aid measures. In the form of dust applies the following:

- 4.1 **Inhalation**  
Remove person from danger area and bring to fresh air. Contact physician in case of persisting problems
- 4.2 **Eye contact**  
Flush eyes for several minutes using copious water. Contact physician in case of persisting problems
- 4.3 **Skin contact**  
Wash skin using copious water and soap. Contact physician in case of persisting problems.
- 4.4 **Ingestion**  
If the person is conscious induce vomiting or give water or milk. To an unconscious person contact physician immediately.
- 4.5 **Special resources necessary for first aid**  
n.g.





## 5. FIRE FIGHTING MEASURES

- 5.1 **Suitable extinguishing media**  
water, foam, dry sand
- 5.2 **Extinguishing media which must not be used for safety reasons**  
(-)
- 5.3 **Special exposure risks in case of fire**  
Combustible. Danger of dust explosion
- 5.4 **Special protective equipment for fire-fighters**  
Choose protection depending on what is on fire in the vicinity

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions**  
Avoid handling that raises dust.
- 6.2 **Environmental precautions**  
Take measures to minimise the effects to soil
- 6.3 **Methods for cleaning up**  
Carefully take up dry. Forward for disposal. Clean up affected area.

## 7. HANDLING AND STORAGE

- 7.1 **Handling**  
General hygiene measures for the handling of chemicals are applicable.  
Avoid build up of dust. Wash hands before eatings, drinking, smoking and at end of work
- 7.2 **Storage**  
Store in a dry place

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1 **General directives to minimize exposure:**  
Avoid dust generation
- 8.2 **Exposure limits**  
They may vary. It is recommended that information about locally applicable exposure limits be obtained. According to a Government Order and Social Policy from 29.11.2002 regarding to the highest acceptable exposure limits. Dz U. Nr 217, poz. 1833 NDS content of Nickel and its inorganic compounds in dust - 0,25 mg/m<sup>3</sup>
- 8.3 **Protective and hygienic measures**
- |                             |                |
|-----------------------------|----------------|
| <b>Breathing protection</b> | not necessary  |
| <b>Hand protection</b>      | gloves         |
| <b>Eye protection</b>       | safety glasses |
| <b>Skin protection</b>      | not necessary  |





## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	plate
Colour:	grey
Smell:	odourless
Boiling point:	2830°C
Melting point:	1450°C
pH -value:	not applicable
Relative density:	8,9 g/cm <sup>3</sup>
Oxidation properties:	not applicable
Solubility in water:	insoluble

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to avoid

The product is stable when handled and stored correctly

### 10.2 Materials to avoid

Avoid contact with strong acid

### 10.3 Hazardous decomposition products

Not applicable

## 11. TOXICOLOGICAL INFORMATION

When in dust form, the product can be absorbed into the human body by ingestion and inhalation.

Acute toxicity: LD<sub>50</sub>>9000 mg/Kg

### 11.1 Delayed and chronic effects

Carcinogenic effects	the carcinogenic potential requires further clarification
Mutagenic effects	not applicable
Teratogenic effects	not applicable
Reproductive toxicity	not applicable

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Do not allow to enter waters

### 12.2 Products of biodegradation

Not applicable

## 13. DISPOSAL CONSIDERATION

### 13.1 Risks of disposal

Dirty surroundings. Recycle to process, if possible

### 13.2 Methods of products residue disposal

In accordance with applicable EEC, national and local regulations





#### **14. TRANSPORT INFORMATION**

14.1	<b>UN-number</b>	Not classified as dangerous goods
14.2	<b>Road transport (ADR)</b>	Not classification assigned
14.3	<b>Railroad transport (RID)</b>	Not classification assigned
14.4	<b>Air transport (IATA)</b>	Not classification assigned
14.5	<b>Sea transport (IMDG)</b>	Not classification assigned

#### **15. REGULATORY INFORMATION**

EEC label for product: Xn Harmful

#### **16. OTHER INFORMATION**

Sources of information:

- 16.1 Polish standards no PN-79/H-87046 Polski Komitet Normalizacji Miar i Jakości
- 16.2 based on the best knowledge and long standing experience

