

MATERIAL SAFETY DATA SHEET

NICKEL

. IDENTIFICATION OF THE PRODUCT AND COMPANY IDENTIFICATION

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

1.3 Telephone numbers in case of emerency: (+) 48 74 840 83 12

2. INFORMATION ON INGREDIENTS / COMPOSITION

2.1 Ingredients

1.2

CAS-numberElement% w/w7440-02-0Nickelmin 99

Formula

NI

3. HAZARDS IDENTIFICATION

Limited evidence of a carcinogenic effect.

4. FIRST AID MEASURES

In normal form there is no need for specific firs-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 presisting 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. Dander of dust explosion

5.4 Special protective equipment for fire-fighters

Choose protection depending on what is on fire in the vicinity

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid handling that raises dust.

6.2 Environmental precautsions

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/m³

8.3 Protective and hygienic measures

Breathing protectionnot necessaryHand protectionglovesEye protectionsafety glassesSkin protectionnot necessary



9. PHYSICAL AND CHEMICAL PROPERTIES

plate Physical state: Colour: grey Smell: odourless 2830°C Boliling point: 1450°C Melting point: pH -value: not applicable 8,9 g/cm³ Relative density: not applicable Oxidation properties:

10. STABILITY AND REACTIVITY

Solubility in water:

10.1 Conditions to avoid

The product is stable when handled and stored correctly

10.2 Materials to avoid

Avoid contact with strong acid

0.3 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: LD50>9000 mg/Kg

insoluble

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 Ecotoxicality

Do not allow to enter waters

12.2 Products of biodegradation

Not applicable

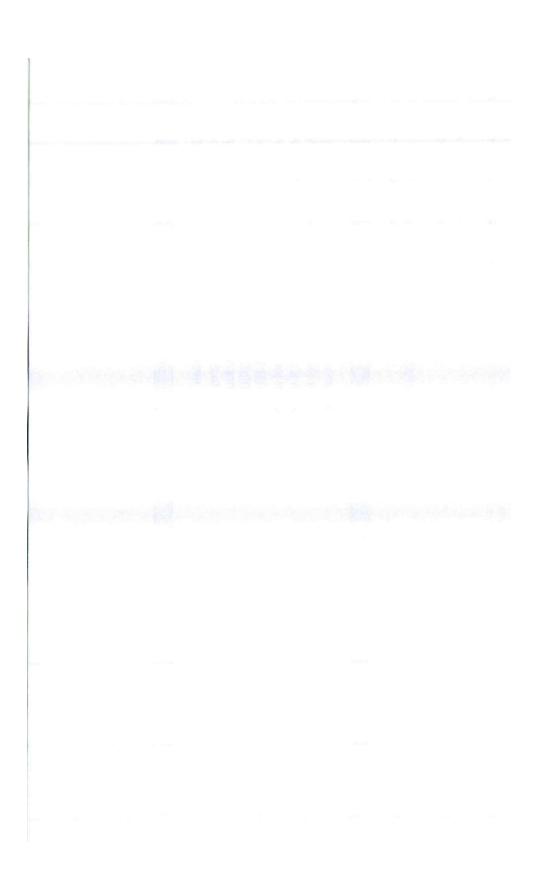
13. DISPOSAL CONSIDERATION

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 UN-number Not classified as dangerouos goods

14.2 Road transport (ADR) Not classification assigned

14.3 Railroad transport (RID) Not classification assigned

14.4 Air transport (IATA) Not classification assigned

14.5 Sea transport (IMDG) 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

