

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name P3417 Black Nickel Oxide.

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2. HAZARD IDENTIFICATION

Classification Acute Tox.4:H302, H332
Aquatic Acute 1:H400
Aquatic Chronic 1:H410

Hazard statements H317 May cause allergic reaction.
H350 May cause cancer by inhalation
H372 Causes damage to lungs through prolonged or repeated
inhalation
H413 May cause long lasting effects to aquatic life.

Signal words Danger

Hazard pictograms GHS07 Exclamation mark. GHS08 Health Hazard.



Precautionary statements P201,P202,P260,P261, P264, P270, P272, P273, P280.
P281, P302+P352, P308+313, P333+ P313, P314,P321
P363, P405, P501.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name Black Nickel Oxide.

Hazardous Ingredient	Typical Composition(%)	CAS. No.	EINECS/EC Label No.
Nickel Oxide (NiO)	98	1313-99-1	215-215-7
Cobaltous Oxide (CoO)	0-1.5	1307-96-6	215-154-6
Nickel Hydroxide	0-0.5	12054-48-7	235-008-05

4. FIRST AID MEASURESDescription of first aid measures

Skin contact	Remove all contaminated clothing and footwear immediately, unless stuck to skin. Drench the affected skin with running water for 10 minutes, or longer if substance is still on skin. Consult a doctor.
Eye contact	Bath the eye with running water for 15 minutes. Consult a doctor.
Ingestion	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation	Remove casualty from exposure, ensuring one's own safety whilst doing so. Consult a doctor.

Symptoms

Skin contact	There may be irritation and redness at the site of contact.
Eye contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation	There may be irritation of the throat, with a feeling of tightness in the chest.

5. FIRE FIGHTING MEASURES

Exposure hazards	Non-flammable. Extinguish surrounding fires with appropriate methods.
Suitable extinguisher	Use suitable extinguishing media for the surrounding fire. Use water spray to cool containers.
Equipment	None needed. Wear protective equipment if required for other materials within the immediate vicinity.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generation of inhalable dust. Do not inhale dusts. Contaminated work clothing should not be allowed out of work place. Use personal protective equipment as required. Wash hands and face thoroughly after handling.
Environmental Precautions	Prevent water from entering into sewers or water course
Clean-up Procedures	Contain spillage, collect material and shovel into suitable plastic container. Dispose of in accordance to local regulations.

7. HANDLING AND STORAGE

Handling Precautions	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.
Storage conditions	Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage area should be impermeable to prevent the escape of liquids.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1.1 Exposure Limits.

Nickel Oxide	Exposure Limits (mg/m ³)	Year
ACGIH TLV-TWA ¹	0.2* ‡ as Ni	2008
UK WEL ²	0.5 as Ni	2006
Japan	1 as Ni	1968
Korea	0.1 as Ni	2006
China	1 as Ni	2007

*Inhalable fraction.

‡ Insoluble inorganic fraction.

8.1.2. Environmental Limits.

PNEC's

Compartment	Unit	PNEC
Freshwater	µg Ni/L (bioavailable)	3.55
Marine	µg Ni/L	8.6
Terrestrial	Mg Ni/kg	29.9

DNEL's

Dermal	Unit	DNEL
Acute systemic	mgNi/kg/day	-
Acute local	mgNi/cm ² /day	-
Long-term systemic	mgNi/day	-
Long-term local	mgNi ² /day	0.024
Inhalation		
Acute systemic	mgNi/m ³	520
Acute local	mgNi/m ³	3.9 ¹
Long-term systemic	mgNi/m ³	0.05 ^{2 3}
Long-term local	mgNi/m ³	0.05 ^{2 3}

¹Based on MMAD of 2.9 µm, increases with increasing MMAD(estimated as = 6.4 mg Ni/m³ for exposure to particles with a MMAD of = 30µm.

2. When handling powders of particle aerodynamic equivalent diameter (AED) below 10µm, exposures (8h TWA) to these powders should be kept under 0.01 mg Ni/m³.

3 When exposure are solely to metallic and nickel oxides (without exposure to any other nickel compounds) and the mean particle size of the aerosol is greater than 10 µm AED (=10% of aerosol mass in respirable fraction) inhalable exposures levels up to 0.2mg Ni/m³ could be reasonably assumed to be safe.

Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area. The floor of the storage area should be impermeable to prevent the escape of liquids.
Respiratory protection	Self contained breathing apparatus must be available in case of emergency. If required use a respiratory protective device with particle filter.
Hand protection	Protective gloves
Eye protection	None. Ensure eye bath is to hand.
Skin protection	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

State	Solid
Odour	Odourless
Colour	Black
Oxidising	Non-oxidising (by EC criteria)
Melting Point	< 1900°C.
Flash point	not applicable
Solubility in water	2.26 x 10 ⁻³ g/l @ 20°C.
Flammability	Non-flammable

10. STABILITY AND REACTIVITY

Chemical stability	Stable in normal conditions
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	No information available.

11. TOXICOLOGICAL INFORMATION

Relevant hazards for substance

Acute Toxicity.

Oral. Non toxic – LD₅₀ ORAL RAT <9990 mg/kg.

Inhalation. Non toxic – LD₅₀ INHAL-RAT >5.15 mg/m³

Symptoms/Routes of exposure.

Skin contact	There may be irritation and redness at the site of contact.
Eye contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation	There may be irritation of the throat, with a feeling of tightness in the chest.

12. ECOLOGICAL INFORMATION

Ecotoxicity values:	Aquatic Chronic 4. May cause long lasting harmful effects to aquatic life.
Persistence and degradability	Not biodegradable
Bioaccumulative potential	Nickel does not tend to bioaccumulate or biomagnify in aquatic or terrestrial systems.
PBT identification	This substance is not identified as a PBT substance.
Other adverse effects	None anticipated..

13. DISPOSAL CONSIDERATIONS

Disposal of product	A licensed contractor should be used. Local and national regulations should be followed. Recover or recycle if possible.
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14. TRANSPORT INFORMATION

International Maritime Dangerous Goods Code.	Not regulated.
International Civil Aviation Organisation Technical Instructions for Carriage of Dangerous Goods by Air.	Not regulated.
U.S. Dept. of Transportation Regulations.	Not regulated.
European Agreement Concerning the International Carriage of Dangerous Goods by Road.	Not regulated.

15. REGULATORY INFORMATION

Europe.

Classification according to Dangerous Substance Directive 67/548/EEC.

T- Toxic Category 1 carcinogen.

R48/23 – Toxic : Danger of serious damage to health by prolonged exposure through inhalation.

R49 – May cause cancer by inhalation.

R43 – May cause sensitisation by skin contact.

R53 – May cause long-term adverse effects in the aquatic environment.

S53 – Avoid exposure – obtain special instructions before use.

S45 – In case of accident or if you feel unwell, seek medical advice immediately (show this label where possible.)

S61 – Avoid release to the environment. Refer to special instructions/safety data sheet.

All components are listed on EINECS. (European Inventory of Existing Chemical Substances).

Classification according to Part 3 of Annex VI of EU Regulation No 1272/2008

Skin Sensitisation – Category 1.

Carcinogenicity – Category -1A.

Specific Target Organ Toxicity, Repeated Exposure – Category -1.

Aquatic Chronic – Category 4.

Symbols : GHS07- Exclamation Mark. GHS08 – Health Hazard.

**16. OTHER INFORMATION**

Recommended uses and further information – see product data sheet

The information contained in the safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety legislation.