

NICKEL (II) OXIDE

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: NICKEL (II) OXIDE

CAS number: 1313-99-1

EINECS number: 215-215-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC21: Laboratory chemicals.

# 1.3. Details of the supplier of the safety data sheet

Company name: Elemental Microanalysis Ltd

1 Hameldown Road Okehampton

Okehampton

Devon

EX20 1UB

United Kingdom

Tel: 44(0)183754446

Fax: 44(0)183754544

Email: info@microanalysis.co.uk

# 1.4. Emergency telephone number

Emergency tel: +44 (0) 7990 767375

(office hours only)

# Section 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification under CLP:	Carc. 1Ai: H350i; Aquatic Chronic 4: H413; Skin Sens. 1: H317; STOT RE 1: H372	
Most important adverse effects:	May cause an allergic skin reaction. May cause cancer by inhalation. Causes damage t	0
	organs through prolonged or repeated exposure. May cause long lasting harmful effects	3
	to aquatic life.	
2.2. Label elements		
Label elements:		
Hazard statements:	H317: May cause an allergic skin reaction.	
	H350i: May cause cancer by inhalation.	
	H372: Causes damage to organs through prolonged or repeated exposure.	
	H413: May cause long lasting harmful effects to aquatic life.	
Hazard pictograms:	GHS07: Exclamation mark	
	GHS08: Health hazard	[cont]

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Signal words:DangerPrecautionary statements:P260: Do not breathe dust/fumes/gas/mist/vapours/spray.P280: Wear protective gloves/protective clothing/eye protection/face protection.P302+P352: IF ON SKIN: Wash with plenty of water.P308+P313: IF exposed or concerned: Get medical advice/attention.P314: Get medical advice/attention if you feel unwell.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

### 3.1. Substances

### Chemical identity: NICKEL MONOXIDE

CAS number: 1313-99-1

EINECS number: 215-215-7

# Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash
	immediately with plenty of soap and water. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

# 4.2. Most important symptoms and effects, both acute and delayed

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.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

# 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

# 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

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### 5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

Do not create dust.

# 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

# 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate

# method.

## 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

#### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of dust in the air.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

# Section 8: Exposure controls/personal protection

# 8.1. Control parameters

Workplace exposure limits: No data available.

**DNEL/PNEC** Values

DNEL / PNEC No data available.

# 8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter. Particle filter class P3S (EN143).
Hand protection: Protective gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

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Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

State:	Granules		
Colour:	Green		
Odour:	Odourless		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range°C:	No data available.	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	No data available.	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	6.67	pH:	No data available.
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

# **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes.

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# Section 11: Toxicological information

### **11.1. Information on toxicological effects**

## Hazardous ingredients:

#### NICKEL MONOXIDE

ORAL	RAT	LD50	11000	mg/kg
SUBCUTANEOUS	MUS	LD50	50	mg/kg

#### **Relevant hazards for product:**

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	Hazardous: calculated
Carcinogenicity		Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

### 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.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

### Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

### 12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

# 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

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### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### **Section 14: Transport information**

Transport class: This product does not require a classification for transport.

# Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

# Section 16: Other information

# Other information

Other information:	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation
	(EU) 2015/830
	This safety data sheet is prepared in accordance with Commission Regulation (EC) No
	1272/2008.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H317: May cause an allergic skin reaction.
	H350i: May cause cancer by inhalation.
	H372: Causes damage to organs through prolonged or repeated exposure.
	H413: May cause long lasting harmful effects to aquatic life.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product.