

# Bath Potters' Supplies

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the preparation/Supplier reference

Trade Name                    **Nickel Oxide**  
Chemical name                Nickel monoxide, NiO  
Synonyms                     Nickel (II) oxide  
Supplier                        Bath Potters Supplies, Unit 18, Fourth Avenue, Westfield Trading Estate,  
   Radstock, Nr. Bath. BA3 4XE  
Emergency numbers        Tel: 01761 411077  
   Fax: 01761 414115  
   Internet: coshh@bathpotters.demon.co.uk

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### 2. Composition

Components.	CAS	EINECS	% of composition
Nickel Monoxide	1313-99-1	2152157	>97
Mixture of non-hazardous impurities (Cu, Fe, S)			<3%

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### 3. Health Hazard Identification

Inhalation                    Excessive exposure may cause symptoms of chronic lung disease.  
   Nickel monoxide is carcinogenic, only by the inhalation route.  
Ingestion                     The product is of low solubility in body fluids.  
Eyes                            May cause physical irritation and inflammation.  
Skin                             Some people may become allergic to nickel compounds. May cause sensitisation by skin contact.

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### 4. First Aid Measures

Inhalation                    Remove patient to fresh air, loosen tight clothing and seek medical attention.  
Ingestion                     Do not induce vomiting, seek medical advice.  
Eyes                            Wash immediately with copious amounts of water. Seek medical attention if irritation persists.  
Skin                             Wash affected areas with water. If irritation persists, seek medical attention

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### 5. Fire Fighting Measures

Extinguishing Media        Suitable for surrounding fire conditions.  
   The product is not explosive or combustible. Standard fire fighting techniques only are  
   required, i.e. water, sand, carbon dioxide, chemical foam extinguishers etc.  
Special Exposure hazard    In the event of fire the product may emit harmful or toxic fumes.  
Protective equipment        Self-contained breathing apparatus.

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### 6. Accidental Release Measures

Leaks & Spills                Remove dry materials either by a vacuum cleaner fitted with an efficient particular filter  
   or by damping down and scooping in to a receptacle.  
Protective equipment        Respiratory protective equipment.

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### 7. Handling & Storage

Handling                     Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the  
   material. Avoid contact with skin and eyes. Avoid breathing the dust. If necessary use an approved  
   respirator for dust, gloves and safety glasses  
Storage                        Store in dry area

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## 8. Exposure Control/Personal protective Equipment

Engineering controls	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended and preferable to personal protection.
Personal protective equipment	Where necessary suitable personal protection should be used; gloves, mask, overalls.

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## 9. Physical & Chemical properties

Appearance & Odour	Black or dark brown powder.
Flash point (°C)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	6.77
pH value	>7 typically (insoluble in water.)
Melting point (°C)	1984 degrees C

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## 10. Stability & Reactivity

Chemical stability	The material is stable under normal conditions.
Conditions/materials to avoid	Heat, sparks, flames, moisture, acids.
Hazardous decomposition products	None known.
Hazardous polymerisation products	None.

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## 11. Toxicology Information

Acute toxicology	LD <sub>50</sub> Oral	>2000 mg/kg
	LD <sub>50</sub> Dermal	Not known
	LD <sub>50</sub> Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs. Nickel monoxide is classified as a category 1 carcinogen because there is enough evidence to link it to cancer in humans, but only by the inhalation route	

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## 12. Ecological information

Ecotoxicity	Not known
Persistence	Chemically stable and will persist in the environment.

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## 13. Disposal

Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1996). Landfill is the most appropriate method.

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## 14. Transport Information

UN/SI No.	Not restricted	
UN Class	Not restricted	
Packing group	Not restricted	
Road	UK	Not restricted
	ADR	Not restricted
Sea	IMO	Not restricted
Air	ICAO	Not restricted

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## 15. Regulatory information

EC Supply Labelling	<b>TOXIC T</b>
R-Phrases	R20 Harmful by inhalation R43 May cause sensitisation by skin contact. R49 May cause cancer by inhalation
S-Phrases	S20/21 When using do not eat, drink or smoke S22 Do not breathe dust S23 Do not breathe spray S45 In case of accident or feeling unwell, seek immediate medical advice. S53 Avoid exposure – obtain special instructions before use.
UK Occupational exposures limits*	Mg/m <sup>3</sup> 8 hr TWA % in product
Nickel compound;as Ni	0.50 77
Nickel monoxide	Category 1 carcinogen >97

\* Refer to HSE Guidance note EH40

In accordance with the H.S.E. Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

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## 16. Other information

General industrial hygiene practices are recommended when handling and using this product.

COSHH ACOP:	H.S.C. Approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96:	Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOP:	H.S.C. Approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP regulations.
HSE EH40:	HSE Guidance note EH40 on Occupational Exposure Limits, to be used in conjunction with the COSHH regulations.

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The information contained in this safety data sheet has been prepared using the best available information. However, in view of technical developments this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Due to the many factors outside our control when using this product we cannot accept liability for any injury, accident, loss or damage caused through its use.

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