



CLAYMAN

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SAFETY DATA SHEET

| | |
|------|--------------|
| 5575 | NICKEL OXIDE |
|------|--------------|

| 1. Identification of substance/preparation and of the company undertaking | |
|---|-------------------|
| Trade Name: | Nickel Oxide |
| Chemical Name: | Nickel Monoxide |
| Synonyms: | Nickel (II) oxide |

| 2. Composition /information on ingredients | | | |
|--|-----------|---------|------------------|
| Component | CAS | EINECS | % of composition |
| Nickel monoxide | 1313-99-1 | 2152157 | >97 |
| Nickel carbonate | 3333-67-3 | 2220682 | >2 |

| 3. Hazards Identification | |
|---------------------------|---|
| Inhalation | Excessive exposure may cause symptoms of chronic lung disease. Nickel monoxide is carcinogenic, but only by the inhalation route. |
| Ingestion | The product is of low solubility in body fluids and it is likely to be of low toxicity. |
| Eyes | May cause physical irritation and inflammation. |
| Skin | The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation. Some people may become allergic to nickel compounds and develop long lasting sensitivity. |

| 4. First Aid Measures | |
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| 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. |
| Skin | Wash affected area with water. |

| 5. Fire Fighting Hazards | |
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| Extinguishing Media | Suitable for surrounding fire conditions. |
| Special Exposure hazard | In the event of fire, the product may emit harmful or toxic fumes. |
| Personal protective equipment | Self contained breathing apparatus. |



| 6. Accidental Release Measure | |
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| Leaks and Spills | Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle. |
| Personal protective equipment | Respiratory protective equipment. |

| 7. Handling & Storage | |
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| Handling | Do not eat, drink or smoke in areas where the material is used. Wash thoroughly after handling the material. |
| Storage | Store in a dry area. |

| 8. Exposure Control/Personal Protection | |
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| Engineering controls | Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended. |
| Personal protective equipment | Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact. |

| 9. Physical & Chemical Properties | |
|-----------------------------------|-------------------------|
| Appearance and Odour | Black powder, odourless |
| Flash point (°C) | Not applicable |
| Flammability | Not applicable |
| Explosive properties | Non-explosive |
| Oxidising properties | None |
| Specific Gravity | 6.7 |
| pH value | 7 (insoluble in water) |
| Melting point (°C) | 1984°C |

| 10. Stability & Reactivity | |
|-----------------------------------|------------------------|
| Chemical stability | The material is stable |
| Conditions/ materials to avoid | None known |
| Hazardous decomposition products | None known |
| Hazardous polymerization products | None |

| 11. Toxicological Information | | | |
|-------------------------------|---|------------|------------|
| Acute Toxicology | LD50 | Oral | >2000mg/kg |
| | LD50 | Dermal | Not known |
| | LD50 | 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 in to cancer in human but only by the inhalation route. | | |



| 12. Ecological Information | |
|----------------------------|---|
| Ecotoxicity | Not known |
| Persistence | The product is chemically stable and will persist in the environment. |

| 13. Disposal Considerations | |
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| Dispose in accordance with current waste Disposal regulations (for UK – Control of Pollution {Special Waste} Regulations 1980). Landfill is the most appropriate method. | |

| 14. Transport Information | | |
|---------------------------|----------------|----------------|
| UN/SI No. | Not classified | |
| UN Class | Not classified | |
| Packing group | Not classified | |
| Road | UK | Not classified |
| | ADR | Not classified |
| Sea | IMO | Not classified |
| Air | ICAO | Not classified |

| 15. Regulatory Information | | | |
|---|-------------------|--|--------------|
| EC Supply Labelling | Toxic | | |
| 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. | |
| | S22/23 | Do not breathe dust or spray | |
| | S45 | In case of accident or if you feel unwell, seek medical advice immediately | |
| | S53 | Avoid exposure – obtain special instruction before use. | |
| UK Occupational exposures limits (Refer to HSE Guidance note EH40) | Mg/m ³ | 8 hr TWA | % in product |
| Nickel compounds (as Ni) (inorganice, insoluble) | | 0.5 | 77 |
| Nickel monoxide (as NiO) | | Category 1 carcinogen | >97 |
| In accordance with HSE 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 constitutes the user's assessment of workplace risk. | | | |



| 16. Other Information | |
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| References | |
| COSHH ACOP | HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994 |
| CHIP 96 | Chemicals (Hazardous Information and Packaging for Supply) Regulations 1996 |
| CHIP SDS ACOPS | HSC 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. |