

# MATERIAL SAFETY DATA SHEET

## Section 1- Chemical Product and Company Identification

**Product Identification:** Nickel Powder

**Other name:** Nickel Dust; Nickel Metal;

**Manufacturer's Name:** CNPC Powder Group Co., Ltd

**Manufacturer's Address:** Room 1211, No.8 Office building Wanda plaza, 58 HeXuan Road, Shanghai.

**Postcode:** 201803

**Email Address:** Inquiry@cnpcpowder.com

**Fax:** 86-21-60919255

**Emergency Telephone:** 86-21-69005580

## Section 2- Composition/Information on Ingredients

CAS#	Chemical Name	%
7440-02-0	Nickel Powder	>99.5

## Section 3- Hazards summarizing

### EMERGENCY OVERVIEW

**Appearance:** Grey black solid.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:** Dust is irritating to the respiratory tract. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. When inhaled as a dust or fume, may cause benign pneumoconiosis.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

## Section 4- First-Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin:** Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with

plenty of soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical aid if cough or other symptoms appear.

### *Section 5- Fire-fighting measures*

#### **General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### **Extinguishing Media:**

Do NOT use carbon dioxide. If water is the only media available, use in flooding amounts. Use dry sand, dry chemical, soda ash or lime.

**Autoignition Temperature:** Not available.

**Flash Point:** Not available.

**Explosion Limits lower:** Not available.

**Explosion Limits upper:** Not available.

**NFPA Rating: (estimated) Health: 1;**

**Flammability: 3;**

**Instability: 3**

### *Section 6-Accidental Release Measures*

**General Information:** Use proper personal protective equipment as indicated in Section 8.

#### **Spills/Leaks:**

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

### *Section 7- Handling and storage*

#### **Handling:**

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

#### **Storage:**

Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

### *Section 8- Exposure Controls/Personal Protection*

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### *Section 9- Physical and chemical properties*

**Physical State:** Solid

**Color:** grey black

**Odor:** none reported

**pH:** Not applicable.

**Vapor Pressure:** 1810 deg C

**Vapor Density:** Not available.

**Evaporation Rate:** Not applicable.

**Viscosity:** Not applicable.

**Boiling Point:** 2732 deg C

**Freezing/Melting Point:** 1455 deg C

**Decomposition Temperature:** Not applicable.

**Solubility in water:** Slightly soluble in hot water.

**Specific Gravity/Density:** 8.9

**Molecular Formula:** Ni

**Molecular Weight:** 58.7

### *Section 10- Stability and Reactivity Data*

**Conditions to Avoid:**

Incompatible materials, moisture, exposure to air, excess heat.

Incompatibilities with Other Materials:

Acetaldehyde, ammonium peroxodisulfate, chloroformamidinium, chloric acid, ammonium nitrate, halogens, dinitrogen tetroxide, nitryl fluoride, polystyrene, sodium acetylide, potassium dichromate, peroxyformic acid, nitryl fluoride, sulfuric acid, sodium carbide, strong oxidizers, phosphorous, halogens.

Hazardous Decomposition Products: Oxides of iron.

**Hazardous Polymerization:** Has not been reported.

### *Section 11- Toxicological information*

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

**Mutagenicity:** No information available.

---

### *Section 12- Ecological Information*

**Other:** No information available.

### *Section 13- Disposal Considerations*

Chemical waste generators must determine whether a discarded chemical is class if as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part Additionally, waste generators must consult state and local hazardous waste ensure complete and accurate classification.

### *Section 14- Transport Information*

**CHINA TDG**

No information available.

**US DOT**

No information available

### *Section 15- Regulatory Information*

**Rule of law information:** N/A

### *Section 16- Other Information*

**Date MSDS prepared:** 04<sup>th</sup> Sep 2014

**Submitter:** CNPC Powder Group Co., Ltd

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

---