

# Safety Data Sheet

Nickel, Metal

**CAROLINA**<sup>®</sup>  
www.carolina.com

## Section 1 Product Description

**Product Name:** Nickel, Metal  
**Recommended Use:** Science education applications  
**Synonyms:** N/A  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

### GHS Classification:

Hazardous to the aquatic environment - Acute Category 3

|                                                     |                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------|
| <b>Other Safety Precautions:</b>                    | IF exposed or concerned: Get medical advice/attention.             |
| <b>Acute Toxicity Oral Contains</b>                 | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Dermal Contains</b>               | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Gas Contains</b>       | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Vapor Contains</b>     | 100 % of the mixture consists of ingredient(s) of unknown toxicity |
| <b>Acute Toxicity Inhalation Dust/Mist Contains</b> | 100 % of the mixture consists of ingredient(s) of unknown toxicity |

## Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Nickel, Metal        | 7440-02-0    | 100      |

## Section 4 First Aid Measures

### Emergency and First Aid Procedures

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | In case of accident by inhalation: remove casualty to fresh air and keep at rest.                       |
| <b>Eyes:</b>         | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.           |
| <b>Skin Contact:</b> | After contact with skin, wash immediately with plenty of water.                                         |
| <b>Ingestion:</b>    | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

## Section 5 Firefighting Procedures

|                                              |                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Extinguishing Media:</b>                  | Use media suitable to extinguish surrounding fire.                                                        |
| <b>Fire Fighting Methods and Protection:</b> | Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. |

# Safety Data Sheet

**Fire and/or Explosion Hazards:**  
**Hazardous Combustion Products:**

Avoid Dusting. May become explosive when dispersed in air.  
Carbon dioxide, Carbon monoxide

## Section 6

## Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:**

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Avoid contact with material. Avoid breathing vapors from heated material. Vacuum or sweep up material and place in a disposal container. Avoid runoff into storm sewers and ditches that lead to waterways. Collect spillage.

## Section 7

## Handling and Storage

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Do not breathe dust. Keep away from ... (incompatible materials to be indicated by the manufacturer).

**Storage:** Store locked up. Keep in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).

**Storage Code:** Green - general chemical storage

## Section 8

## Protection Information

| <u>Chemical Name</u> | <u>ACGIH</u>                          | <u>OSHA PEL</u> |             |        |
|----------------------|---------------------------------------|-----------------|-------------|--------|
|                      | (TWA)                                 | (STEL)          | (TWA)       | (STEL) |
| Nickel, Metal        | 1.5 mg/m3 TWA<br>(inhalable fraction) | N/A             | 1 mg/m3 TWA | N/A    |

### Control Parameters

**Engineering Measures:**

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Good general room ventilation should be sufficient to control airborne contaminants to safe levels.

**Personal Protective Equipment (PPE):**  
**Respiratory Protection:**

Lab coat, apron, eye wash, safety shower.  
No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.

**Eye Protection:**

Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:**

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:**

Nitrile

## Section 9

## Physical Data

**Formula:** Ni  
**Molecular Weight:** 58.71 g/mol  
**Appearance:** Metallic Grey Silver Solid  
**Odor:** No data available  
**Odor Threshold:** No data available  
**pH:** No data available  
**Melting Point:** 1455 C  
**Boiling Point:** 2900 C  
**Flash Point:** No data available  
**Flammable Limits in Air:** N/A

**Vapor Pressure:** 1 mmHg at 1810 °C  
**Evaporation Rate (BuAc=1):** N/A  
**Vapor Density (Air=1):** N/A  
**Specific Gravity:** 8.9  
**Solubility in Water:** Practically Insoluble  
**Log Pow (calculated):** No data available  
**Autoignition Temperature:** No data available  
**Decomposition Temperature:** No data available  
**Viscosity:** No data available  
**Percent Volatile by Volume:** N/A

## Section 10

## Reactivity Data

# Safety Data Sheet

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Reactivity:</b>               | No data available                                     |
| <b>Chemical Stability:</b>       | Stable under normal conditions.                       |
| <b>Conditions to Avoid:</b>      | None known.                                           |
| <b>Incompatible Materials:</b>   | Acids, Aluminum alloys, Ammonia, Oxidizers, , Sulfur, |
| <b>Hazardous Polymerization:</b> | Will not occur                                        |

## Section 11 Toxicity Data

|                          |                                             |
|--------------------------|---------------------------------------------|
| <b>Routes of Entry</b>   | Inhalation, ingestion, eye or skin contact. |
| <b>Symptoms (Acute):</b> | N/A                                         |
| <b>Delayed Effects:</b>  | No data available                           |

### Acute Toxicity:

| Chemical Name     | CAS Number | Oral LD50      | Dermal LD50    | Inhalation LC50 |
|-------------------|------------|----------------|----------------|-----------------|
| No data available | 7440-02-0  | Not determined | Not determined | Not determined  |

### Carcinogenicity:

| Chemical Name | CAS Number | IARC   | NTP    | OSHA   |
|---------------|------------|--------|--------|--------|
| Nickel, Metal | 7440-02-0  | Listed | Listed | Listed |

### Chronic Effects:

|                              |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
| <b>Mutagenicity:</b>         | No evidence of a mutagenic effect.                                                  |
| <b>Teratogenicity:</b>       | No evidence of a teratogenic effect (birth defect).                                 |
| <b>Sensitization:</b>        | Evidence of a sensitization effect.                                                 |
| <b>Reproductive:</b>         | No evidence of negative reproductive effects.                                       |
| <b>Target Organ Effects:</b> |                                                                                     |
| <b>Acute:</b>                | See Section 2                                                                       |
| <b>Chronic:</b>              | Certain components or species of this product are considered potential carcinogens. |

## Section 12 Ecological Data

|                               |                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Overview:</b>              | Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways. |
| <b>Mobility:</b>              | No data                                                                                                     |
| <b>Persistence:</b>           | No data                                                                                                     |
| <b>Bioaccumulation:</b>       | No data                                                                                                     |
| <b>Degradability:</b>         | No data                                                                                                     |
| <b>Other Adverse Effects:</b> | No data                                                                                                     |

| Chemical Name | CAS Number | Eco Toxicity                                                                                                                                                                                                                        |
|---------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nickel, Metal | 7440-02-0  | 96 HR LC50 BRACHYDANIO RERIO > 100 MG/L<br>96 HR LC50 CYPRINUS CARPIO 10.4 MG/L [STATIC]<br>48 HR EC50 DAPHNIA MAGNA > 100 MG/L<br>48 HR EC50 DAPHNIA MAGNA 1 MG/L [STATIC]<br>72 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 0.18 MG/L |

## Section 13 Disposal Information

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal Methods:</b>       | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| <b>Waste Disposal Code(s):</b> | Not Determined                                                                                                                                        |

## Section 14 Transport Information

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| <b>Ground - DOT Proper Shipping Name:</b> | <b>Air - IATA Proper Shipping Name:</b>  |
| N/A                                       | Not regulated for air transport by IATA. |

## Section 15 Regulatory Information

Nickel, Metal

# Safety Data Sheet

## TSCA Status:

All components in this product are on the TSCA Inventory.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ                                                                                                                                                                                                                                                                                                         | § 302 TPQ | CAA 112(2) TQ |
|---------------|------------|------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Nickel, Metal | 7440-02-0  | Nickel     | No       | 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) | No        | No            |

## California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## Section 16

## Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

|        |                                                                       |      |                                               |
|--------|-----------------------------------------------------------------------|------|-----------------------------------------------|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                           | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available                                                         | SARA | Superfund Amendments and Reauthorization Act  |
|        |                                                                       | TLV  | Threshold Limit Value                         |
|        |                                                                       | TSCA | Toxic Substances Control Act                  |
|        |                                                                       | IDLH | Immediately dangerous to life and health      |