

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.11.2015

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## Nickel Metal Shot,

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** Nickel Metal Shot,

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25444A

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

**Emergency telephone number:**

**Fisher Science Education**  
Emergency Telephone No.: 800-535-5053

### SECTION 2: Hazards identification

**Classification of the substance or mixture:**



**Irritant**

Residual powder can cause irritation to eyes and skin sensitization.

**Signal word:** Warning

**Hazard statements:**

Causes eye irritation.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Do not eat, drink or smoke when using this product.

If on skin: Wash with soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

Store in a well ventilated place.

Dispose of contents and container as instructed in Section 13.

**Other Non-GHS Classification:**

**WHMIS**

None

**NFPA/HMIS**

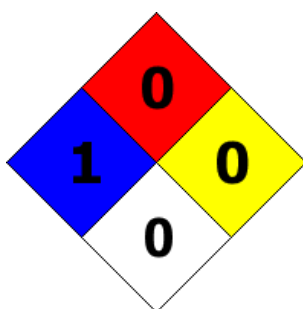
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## Nickel Metal Shot,



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

#### Ingredients:

CAS 7440-02-0	Nickel Metal	100 %
Percentages are by weight		

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

If inhaled, remove to fresh air.

##### After skin contact:

Wash affected areas with soap and water.

##### After eye contact:

Seek medical attention. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing.

##### After swallowing:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** None

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Use water spray to cool unopened containers.

##### Unsuitable extinguishing agents:

No information available.

**Special hazards arising from the substance or mixture:** None

#### Advice for firefighters:

##### Protective equipment:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

##### Additional information (precautions):

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Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing. Avoid dust generation.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

**Environmental precautions:** None

**Methods and material for containment and cleaning up:** None

**Reference to other sections:** None

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Do not eat, drink, smoke, or use personal products when handling chemical substances.

#### Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers.

### SECTION 8: Exposure controls/personal protection



#### Control Parameters:

7440-02-0, Nickel , TWA 1.5 mg/m<sup>3</sup> USA. ACGIH.  
7440-02-0, Nickel, TWA 1.000000 mg/m<sup>3</sup> USA. OSHA.  
7440-02-0 , Nickel, TWA 0.015000 mg/m<sup>3</sup> USA. NIOSH.

#### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Respiratory protection:

Not required under normal conditions of use.

#### Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

#### Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### General hygienic measures:

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing.

### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Gray solid	<b>Explosion limit lower:</b>	Not Determined
		<b>Explosion limit upper:</b>	Not Determined
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	1 mm Hg @ 1810°C
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	Not Determined
<b>pH-value:</b>	9 - 11 at 20 °C	<b>Relative density:</b>	Not Determined

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## Nickel Metal Shot,

<b>Melting/Freezing point:</b>	1455°C	<b>Solubilities:</b>	Insoluble.
<b>Boiling point/Boiling range:</b>	2730°C	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	Not Determined	<b>Auto/Self-ignition temperature:</b>	87 °C
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gaseous):</b>	Flammable	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density at 20°C:</b>	Not Determined		

### SECTION 10: Stability and reactivity

#### Reactivity:

Nonreactive under normal conditions.

#### Chemical stability:

Stable under normal conditions.

#### Possible hazardous reactions:

None under normal processing.

#### Conditions to avoid:

Incompatible materials. Dust generation. Excessive heat.

#### Incompatible materials:

Reactive with oxidizing agents, combustible materials, metals, acids.

#### Hazardous decomposition products:

Nickel oxides.

### SECTION 11: Toxicological information

#### Acute Toxicity:

##### Oral:

7440-02-0 LD50 oral-rat: 105mg/kg

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

#### Sensitization:

Irritating to skin and gastrointestinal tract.

**Numerical Measures:** No additional information.

#### Carcinogenicity:

7440-02-0 : IARC: 2B - Group 2B: Possibly carcinogenic to humans (Nickel) NTP: Reasonably anticipated to be a human carcinogen (Nickel)

**Mutagenicity:** No additional information.

**Reproductive Toxicity:** No additional information.

### SECTION 12: Ecological information

**Ecotoxicity:** No additional information.

**Persistence and degradability:** No additional information.

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**Bioaccumulative potential:** No additional information.

**Mobility in soil:** No additional information.

**Other adverse effects:** No additional information.

### SECTION 13: Disposal considerations

#### Waste disposal recommendations:

Dispose of empty containers as unused product. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).

### SECTION 14: Transport information

#### US DOT

##### UN Number:

ADR, ADN, DOT, IMDG, IATA

N/A

##### Limited Quantity Exception:

None

##### Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** Not Classified.

**Hazard Class:** None

**Packing Group:** Not Classified.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

##### Non Bulk:

**RQ (if applicable):** None

**Proper shipping Name:** Not Classified.

**Hazard Class:** None

**Packing Group:** Not Classified.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

### SECTION 15: Regulatory information

#### United States (USA)

##### SARA Section 311/312 (Specific toxic chemical listings):

Chronic

##### SARA Section 313 (Specific toxic chemical listings):

7440-02-0 Nickel.

##### RCRA (hazardous waste code):

None of the ingredients are listed.

##### TSCA (Toxic Substances Control Act):

All ingredients are listed.

##### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7440-02-0 Nickel 100 lbs.

#### Proposition 65 (California):

##### Chemicals known to cause cancer:

None of the ingredients are listed.

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### Nickel Metal Shot,

#### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### Canadian NPRI Ingredient Disclosure list (limit 0.1%):

7440-02-0 Nickel.

#### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**GHS Full Text Phrases:** None

**Abbreviations and Acronyms:** None

**Effective date:** 02.11.2015

**Last updated:** 06.24.2015