

# Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 10.24.2014

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## Wood's Metal Alloy Sticks

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

**Product name:** Wood's Metal Alloy Sticks

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** S25626

**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:**

Specific target organ toxicity following repeated exposure, category 2  
Germ cell mutagenicity, category 2  
Reproductive toxicity, category 2  
Acute hazards to the aquatic environment, category 1  
Chronic hazards to the aquatic environment, category 1  
Acute toxicity (oral, dermal, inhalation), category 4  
Carcinogenicity, category 1A

**Hazard statements:**

Fatal if inhaled.  
Suspected of causing genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life with long lasting effects.  
Very toxic to aquatic life.

**Precautionary statements:**

Obtain special instructions before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Use personal protective equipment as required.  
Wear respiratory protection.

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

Get Medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Collect spillage.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with soap and water.

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific measures (see supplemental first aid instructions on this label).

Store locked up.

Dispose of contents and container to an approved waste disposal plant.

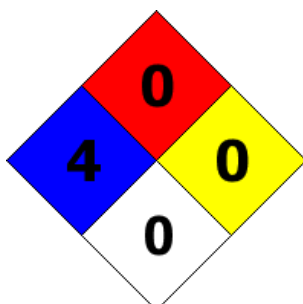
### Other Non-GHS Classification:

#### WHMIS

D2A



#### NFPA/HMIS



NFPA SCALE (0-4)

Health	4
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

### SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 7440-43-9	Cadmium Metal	12.5 %
CAS 74410-69-9	Bismuth	50 %
CAS 7439-92-1	Lead	25 %
CAS 7440-31-5	Tin	12.5 %

Percentages are by weight

### SECTION 4: First aid measures

#### Description of first aid measures

##### After inhalation:

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Consult a physician.

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### After skin contact:

Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Take victim to hospital. Consult a physician.

### After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Consult a physician.

### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 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 appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**Unsuitable extinguishing agents:** None

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Tin/tin oxides, Cadmium/cadmium oxides, Bismuth oxides, Lead oxides.

### Advice for firefighters:

#### Protective equipment:

Use NIOSH-approved respiratory protection/breathing apparatus.

#### Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

## SECTION 6: Accidental release measures

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

Wear protective equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

### Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

### Methods and material for containment and cleaning up:

Keep in suitable closed containers for disposal. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Evacuate personnel to safe areas.

**Reference to other sections:** None

## SECTION 7: Handling and storage

### Precautions for safe handling:

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Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Further processing of solid materials may result in the formation of combustible dusts. Provide ventilation for containers. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

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

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed containers. Store with like hazards.

## SECTION 8: Exposure controls/personal protection



### Control Parameters:

7440-43-9, Cadmium, ACGIH TLV TWA (inhalable particles) 0.01 mg/m<sup>3</sup>.  
7440-22-4, Cadmium, OSHA PEL 0.005000 mg/m<sup>3</sup> specifically regulated chemicals/carcinogens.  
7439-92-1, Lead, TWA 0.05 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV).  
7439-92-1, Lead, TWA 0.05 mg/m<sup>3</sup> USA. NIOSH Recommended Exposure Limits.  
7440-31-5, Tin, TWA 2 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values.  
7440-31-5, Tin, TWA 2.000000 mg/m<sup>3</sup> USA. NIOSH Recommended.

### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood.

### Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

### 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). Safety glasses or goggles are appropriate eye protection.

### General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

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## Wood's Metal Alloy Sticks

### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Grey solid	<b>Explosion limit lower: Explosion limit upper:</b>	Not determined Not determined
<b>Odor:</b>	Odorless	<b>Vapor pressure:</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not determined
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	Not determined
<b>Melting/Freezing point:</b>	70°C	<b>Solubilities:</b>	Maerial is insoluble in water.
<b>Boiling point/Boiling range:</b>	Not Determined	<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Flash point (closed cup):</b>	Not determined	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid,gaseous):</b>	Not determined	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density:</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.

**Incompatible materials:**

Strong acids.

**Hazardous decomposition products:** None

### SECTION 11: Toxicological information

<b>Acute Toxicity:</b>		
<b>Oral:</b>		LD50 - Rat - 2,330 mg/kg
<b>Chronic Toxicity:</b> No additional information.		

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<b>Corrosion Irritation:</b> No additional information.	
<b>Sensitization:</b>	No additional information.
<b>Single Target Organ (STOT):</b>	No additional information.
<b>Numerical Measures:</b>	No additional information.
<b>Carcinogenicity:</b>	Cadmium: IARC: 1 - Group 1: Carcinogenic to humans Lead: IARC: 2B - Group 2B: Possibly carcinogenic to humans (Lead) Cadmium: NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. Lead: NTP: Reasonably anticipated to be a human carcinogen (Lead) Lead: OSHA: 1910.1025, OSHA specifically regulated carcinogen.
<b>Mutagenicity:</b>	No additional information.
<b>Reproductive Toxicity:</b>	No additional information.

## SECTION 12: Ecological information

**Ecotoxicity:** None

**Persistence and degradability:**

No information available.

**Bioaccumulative potential:**

No information available.

**Mobility in soil:**

No information available.

**Other adverse effects:**

No information available.

## SECTION 13: Disposal considerations

**Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## SECTION 14: Transport information

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**UN-Number:**

3288

**UN proper shipping name:**

Toxic solid, inorganic, n.o.s.

**Transport hazard class(es):** None

**Packing group:** II

**Environmental hazard:** None

**Transport in bulk:** Not Applicable

**Special precautions for user:** None

### SECTION 15: Regulatory information

**United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Chronic

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

7439-92-14 Lead.

7440-43-9 Cadmium.

**RCRA (hazardous waste code):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

7440-43-9 Cadmium RQ 10 LB.

76093-98-6 Woods Metal 40 LB.

**Proposition 65 (California):****Chemicals known to cause cancer:**

7439-92-1 Lead.

7440-43-9 Cadmium.

**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:**

7439-92-1 Lead.

7440-43-9 Cadmium.

**Canada****Canadian Domestic Substances List (DSL):**

All ingredients are listed.

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

7440-43-9 Cadmium.

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

None of the ingredients are listed.

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### Wood's Metal Alloy Sticks

#### 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:

IMDG International Maritime Code for Dangerous Goods.  
IATA International Air Transport Association.  
GHS Globally Harmonized System of Classification and Labelling of Chemicals.  
ACGIH American Conference of Governmental Industrial Hygienists.  
CAS Chemical Abstracts Service (division of the American Chemical Society).  
NFPA National Fire Protection Association (USA).  
HMIS Hazardous Materials Identification System (USA).  
WHMIS Workplace Hazardous Materials Information System (Canada).  
DNEL Derived No-Effect Level (REACH).  
PNEC Predicted No-Effect Concentration (REACH).  
CFR Code of Federal Regulations (USA).  
SARA Superfund Amendments and Reauthorization Act (USA).  
RCRA Resource Conservation and Recovery Act (USA).  
TSCA Toxic Substances Control Act (USA).  
NPRI National Pollutant Release Inventory (Canada).  
DOTUS Department of Transportation.

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