

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.20.2018

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Wood's Metal

SECTION 1: Identification

Product identifier

Product name: Wood's Metal

Product code: WO5000

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

Emergency telephone number:

United States

ChemTel Inc

+1(800)255-3924

+1(813)248-0585

SECTION 2: Hazard(s) identification

GHS classification:

Specific target organ toxicity - repeated exposure, category 2

Reproductive toxicity, category 2

Carcinogenicity, category 1A

Germ cell mutagenicity, category 2

Acute toxicity (oral), category 4

Acute toxicity (dermal), category 4

Acute toxicity (inhalation), category 4

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure

H361 Suspected of damaging fertility or the unborn child

H350 May cause cancer

H341 Suspected of causing genetic defects

H302 Harmful if swallowed

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H312 Harmful in contact with skin
H332 Harmful if inhaled
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P308+P313 If exposed or concerned: Get medical advice/attention
P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P322 Specific measures (see supplemental first aid instructions on this label)
P363 Wash contaminated clothing before reuse
P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell
P391 Collect spillage
P405 Store locked up
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|--------------------------|---------------|----------|
| CAS number: 7439-92-1 | Lead | 25 |
| CAS number: 7440-69-9 | Bismuth | 50 |
| CAS number: 7440-31-5 | Tin | 12.5 |
| CAS number: 7440-43-9 | Cadmium Metal | 12.5 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Move to fresh air

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Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Wash affected area with soap and water
Seek medical attention if symptoms develop or persist

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists
Call a POISON CONTROL CENTER or seek medical attention if you feel unwell
Do not induce vomiting
Rinse mouth and then drink plenty of water

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing
Refer to Section 8

Special precautions:

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:

Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:

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Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|---------------|------------|---|
| ACGIH | Cadmium Metal | 7440-43-9 | ACGIH TLV TWA 0.01 mg/m ³ as Cd (0.002 mg/m ³ as Cd, respirable fraction) |
| | Lead | 7439-92-1 | ACGIH TLV TWA 0.05 mg/m ³ as Pb |
| | Tin | 7440-31-5 | ACGIH TLV TWA 2 mg/m ³ as Sn |
| United States (OSHA) | Cadmium Metal | 7440-43-9 | OSHA PEL TWA 0.005 mg/m ³ as Cd |
| | Tin | 7440-31-5 | OSHA PEL TWA 2 mg/m ³ as Sn |
| | Lead | 7439-92-1 | OSHA PEL [1910.1025] TWA 0.05 mg/m ³ as Pb |
| NIOSH | Lead | 7439-92-1 | NIOSH REL TWA 0.05 mg/m ³ as Pb |
| | Cadmium Metal | 7440-43-9 | NIOSH IDLH 9 mg/m ³ as Cd |
| | Tin | 7440-31-5 | NIOSH IDLH 100 mg/m ³ as Sn |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

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Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|--------------------------------|
| Appearance | Grey solid |
| Odor | Odorless |
| Odor threshold | Not determined |
| pH | Not determined |
| Melting point/freezing point | 70 °C |
| Initial boiling point/range | Not determined |
| Flash point (closed cup) | Not determined |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | Not determined |
| Upper flammability/explosive limit | Not determined |
| Lower flammability/explosive limit | Not determined |
| Vapor pressure | Not determined |
| Vapor density | Not determined |
| Density | Not determined |
| Relative density | Not determined |
| Solubilities | Material is insoluble in water |
| Partition coefficient (n-octanol/water) | Not determined |
| Auto/Self-ignition temperature | Not determined |
| Decomposition temperature | Not determined |
| Dynamic viscosity | Not determined |
| Kinematic viscosity | Not determined |
| Explosive properties | Not determined |
| Oxidizing properties | Not determined |

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

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SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed Harmful in contact with skin Harmful if inhaled

Product data: No data available.

Substance data:

| Name | Route | Result |
|---------------|------------|--|
| Cadmium Metal | inhalation | LC50 - Rat - 25 mg/m ³ /30 mins |
| Lead | oral | LD50 - Woman - 450 mg/kg |

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data:

| Name | Species | Result |
|---------------|---------|-----------------------------|
| Cadmium Metal | | Component may cause cancer. |

International Agency for Research on Cancer (IARC):

| Name | Classification |
|---------------|--|
| Cadmium Metal | Group 1 - Carcinogenic to humans |
| Lead | Group 2A - Probably carcinogenic to humans |

National Toxicology Program (NTP):

| Name | Classification |
|---------------|--|
| Cadmium Metal | Known to be human carcinogens |
| Lead | Reasonably anticipated to be human carcinogens |

Germ cell mutagenicity

Assessment: Suspected of causing genetic defects

Product data: No data available.

Substance data:

| Name | Result |
|---------------|---|
| Cadmium Metal | Cadmium is a mutagen that acts by inhibiting mismatch repair. |

Reproductive toxicity

Assessment: Suspected of damaging fertility or the unborn child

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Product data: No data available.

Substance data:

| Name | Result |
|---------------|---|
| Cadmium Metal | Toxic effects on the reproductive system. |
| Lead | Component may cause genetic defects. |

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|---------------|--|
| Cadmium Metal | Substance causes damage to organs. |
| Lead | Repeated exposure causes organ toxicity. |

Specific target organ toxicity (repeated exposure)

Assessment: May cause damage to organs through prolonged or repeated exposure

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Very toxic to aquatic life

Product data: No data available.

Substance data:

| Name | Result |
|---------------|---|
| Cadmium Metal | NOEC - Parachlorella kessleri - 0.002 mg/L - 5 days |
| | LC50 - Chrysophrys major - 0.56 mg/L - 72 hr |
| Lead | Ec50 - Marine Microalga - 0.9 g/L - 72 hr |
| | LC50 - Water flea - 0.53 g/L - 48 hr |

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

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Substance data: No data available.

Other adverse effects: No data available.


SECTION 13: Disposal considerations

Disposal methods:


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


United States Transportation of dangerous goods (49 CFR DOT)

| | |
|-------------------------------|---|
| UN number | UN 2570 |
| UN proper shipping name | Cadmium Compound |
| UN transport hazard class(es) | 6  |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|---|
| UN number | UN 2570 |
| UN proper shipping name | Cadmium Compound |
| UN transport hazard class(es) | 6  |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|-------------------------------|---|
| UN number | UN 2570 |
| UN proper shipping name | Cadmium Compound |
| UN transport hazard class(es) | 6  |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

| | | |
|-----------|---------------|--------|
| 7440-69-9 | Bismuth | Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |

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| | | |
|-----------|-----|--------|
| 7440-31-5 | Tin | Listed |
|-----------|-----|--------|

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

| | | | | |
|-------|---------|------|----------|----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| Yes | Yes | No | No | No |

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

| | | |
|-----------|---------------|------------|
| 7440-69-9 | Bismuth | Not Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |
| 7440-31-5 | Tin | Not Listed |

CERCLA:

| | | | |
|-----------|---------------|--------|---------|
| 7440-43-9 | Cadmium Metal | Listed | 10 |
| 7439-92-1 | Lead | Listed | 10 lbs. |

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

| | | |
|-----------|---------------|------------|
| 7440-69-9 | Bismuth | Not Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |
| 7440-31-5 | Tin | Listed |

New Jersey Right to Know:

| | | |
|-----------|---------------|------------|
| 7440-69-9 | Bismuth | Not Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |
| 7440-31-5 | Tin | Listed |

New York Right to Know:

| | | |
|-----------|---------------|------------|
| 7440-69-9 | Bismuth | Not Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |
| 7440-31-5 | Tin | Listed |

Pennsylvania Right to Know:

| | | |
|-----------|---------------|------------|
| 7440-69-9 | Bismuth | Not Listed |
| 7440-43-9 | Cadmium Metal | Listed |
| 7439-92-1 | Lead | Listed |
| 7440-31-5 | Tin | Listed |

California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer.

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| | |
|-----------|---------------|
| 7440-43-9 | Cadmium Metal |
| 7439-92-1 | Lead |

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

| | |
|-----------|---------------|
| 7440-43-9 | Cadmium Metal |
| 7439-92-1 | Lead |

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

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. 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.

NFPA: 4-0-0

HMIS: 4-0-0

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End of Safety Data Sheet