Fisher Scientific

Material Safety Data Sheet Wood's Metal

MSDS# 25123

MSDS Name:

Synonyms:

Catalog Numbers:

Section 1 - Chemical Product and Company Identification Wood's Metal AC388550000 Metal Alloy, S80243. **Fisher Scientific Company Identification:** One Reagent Lane Fair Lawn, NJ 07410 For information in the US, call: 201-796-7100

> 201-796-7100 800-424-9300

Section 2 - Composition, Information on Ingredients

_____ Risk Phrases: 61 20/22 33 50/53 62

CHEMTREC Phone Number, US:

Emergency Number US:

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CAS#:	7439-92-1
Chemical Name:	Lead
%:	25%
EINECS#:	231-100-4
Hazard Symbols:	T N
Risk Phrases:	
CAS#:	7440-31-5
Chemical Name:	Tin
%:	12.5%
EINECS#:	231-141-8
Hazard Symbols:	
Risk Phrases:	
CAS#:	7440-43-9
Chemical Name:	Cadmium
%:	12.5%
EINECS#:	231-152-8
Hazard Symbols:	
Risk Phrases:	
CAS#:	7440-69-9
Chemical Name:	Bismuth
%:	50%
EINECS#:	231-177-4
Hazard Symbols:	

Risk Phrases:	
CAS#:	76093-98-6
Chemical Name:	Wood's Metal
%:	
EINECS#:	unlisted
Hazard Symbols:	
Taxt for P phrases: soo Section 16	

Text for R-phrases: see Section 16 Hazard Symbols:



Risk Phrases:

45 61 22 26 33 48/23/25 50/53 62 68 Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Possible risks of irreversible effects. Harmful if swallowed. Cancer hazard. May cause cancer in humans. May be fatal if inhaled. Danger of cumulative effects. Danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Possible risk of impaired fertility. May cause harm to the unborn child. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Target Organs: Blood, kidneys, central nervous system, liver, skeletal structures.

Potential Health Effects

Eve: May cause eye irritation.

May cause skin irritation. May be harmful if absorbed through the skin. Skin:

T+N

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation: May be fatal if inhaled. May cause respiratory tract irritation.

May cause cancer in humans. There is a danger of cumulative effects. Possible risk of irreversible effects. Chronic: Possible risk of harm to the unborn child. May impair fertility.

Section 4 - First Aid Measures

- Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower Eyes: eyelids. Get medical aid immediately. Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing
- Skin: contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; Inhalation: induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General (approved or equivalent), and full protective gear. Substance is noncombustible. Information: Extinguishing Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Media:

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Not available

Upper:

NFPA Rating: health: 4; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

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

Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing Spills/Leaks: apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Handling: Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

1
IOSH OSHA - Final PELs
/m3 TWA 50 æg/m3 TWA; 50 n3 IDLH æg/m3 TWA (as Pb); 30 æg/m3 Action Level (as Pb, Poison - see 29 CFR 1910.102 5)
IWA 100 none listed DLH
B IDLH 5 æg/m3 TWA; 0.1 mg/m3 TWA (fume, applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect); 0.2 mg/m3 TWA (dust, applies to any operations or sectors for
ced none listed
ed none listed

OSHA Vacated PELs: Lead: None listed Tin: 2 mg/m3 TWA Cadmium: None listed Bismuth: None listed Wood's Metal: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes: protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced. Section 9 - Physical and Chemical Properties Physical State: Solid Color: grey metal Odor: odorless pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: 70 deg C (158.00°F) Decomposition Temperature: Not available Solubility in water: Insoluble in water Specific Gravity/Density: Not available. Molecular Formula: Bi.Cd.Pb.Sn Molecular Weight: Section 10 - Stability and Reactivity Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Incompatible materials, dust generation. Incompatibilities with Other Materials Strong oxidizing agents. Hazardous Decomposition Products Tin/tin oxides, lead/lead oxides, bismuth oxide, toxic chromium oxide fumes. Will not occur. Hazardous Polymerization Section 11 - Toxicological Information CAS# 7439-92-1: OF7525000 CAS# 7440-31-5: XP7320000 RTECS#: CAS# 7440-43-9: EU9800000 CAS# 7440-69-9: EB2600000 CAS# 76093-98-6: None listed RTECS: Not available. RTECS: Not available. RTECS: **CAS# 7440-43-9:** Inhalation, rat: LC50 = 25 mg/m3/30M; Oral, mouse: LD50 = 890 mg/kg; Oral, rat: LD50 = 2330 mg/kg;LD50/LC50: **RTECS**: CAS# 7440-69-9: Oral, mouse: LD50 = 10 gm/kg; Oral, rat: LD50 = 5000 mg/kg; RTECS: CAS# 76093-98-6:. Lead - ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans California: carcinogen, initial date 10/1/92 NTP: Suspect carcinogen IARC: Group 2A carcinogen Tin - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity: Cadmium - ACGIH: A2 - Suspected Human Carcinogen (Cadmium compounds). California: carcinogen, initial date 10/1/87 NTP: Known carcinogen IARC: Group 1 carcinogen Bismuth - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Wood's Metal - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Other: See actual entry in RTECS for complete information. Section 12 - Ecological Information Other: Do not empty into drains. Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT Shipping Name: CADMIUM COMPOUND Hazard Class: 6.1 UN Number: UN2570 Packing Group: II Canada TDG Shipping Name: CADMIUM COMPOUND Hazard Class: 6.1 UN Number: UN2570 Packing Group: II

USA RQ: CAS# 7439-92-1: 10 lb final RQ (no reporting of releases of this hazardous substanc USA RQ: CAS# 7440-43-9: 10 lb final RQ (no reporting of releases of this hazardous substanc

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+ N

Risk Phrases:

R 45 May cause cancer.

R 61 May cause harm to the unborn child.

R 22 Harmful if swallowed.

R 26 Very toxic by inhalation.

R 33 Danger of cumulative effects.

R 48/23/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 62 Possible risk of impaired fertility.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions before use.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 7439-92-1: Not available CAS# 7440-31-5: Not available CAS# 7440-43-9: Not available CAS# 7440-69-9: Not available CAS# 76093-98-6: Not available

Canada

CAS# 7439-92-1 is listed on Canada's DSL List

CAS# 7440-31-5 is listed on Canada's DSL List

CAS# 7440-43-9 is listed on Canada's DSL List

CAS# 7440-69-9 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1A, D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7439-92-1 is listed on Canada's Ingredient Disclosure List CAS# 7440-31-5 is listed on Canada's Ingredient Disclosure List CAS# 7440-43-9 is listed on Canada's Ingredient Disclosure List CAS# 7440-69-9 is not listed on Canada's Ingredient Disclosure List. CAS# 76093-98-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7439-92-1 is listed on the TSCA Inventory.

CAS# 7440-31-5 is listed on the TSCA Inventory.

CAS# 7440-43-9 is listed on the TSCA Inventory.

CAS# 7440-69-9 is listed on the TSCA Inventory.

CAS# 76093-98-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Other Information

MSDS Creation Date: 12/12/1997 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event 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.