

SAFETY DATA SHEET

Date Printed: 05/02/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifier: Woods Metal Stick

Product Code: BIPB-SNCD-01-STK

CAS Number: 76093-98-6

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Inhalation (Category 2), H330
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1A), H350
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label elements, including precautionary statements



Pictogram Signal word Danger Hazard statement(s) H330 Fatal if inhaled. H341 Suspected of causing genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ Vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components **Component Classification Concentration** Cadmium Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) CAS-No. EC-No. Index-No. 7440-43-9 231-152-8 048-002-00-0 Acute Tox. 2; Muta. 2; Carc. 1B; Repr. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H341, H350, H361, H372, H410 >= 10 - < 20 %

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measuresGeneral adviceConsult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Cadmium/cadmium oxides, Bismuth oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure

adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment

must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result

in the formation of combustible dusts. The potential for combustible dust formation should be taken

into consideration
before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace control parameters Component CAS-No. Value Control parameters Basis Cadmium 7440-43-9 TWA 0.010000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Remarks Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen TWA 0.002000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen Substance listed: for more information see OSHA document 1910.1027 TWA 0.100000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. TWA 0.200000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.300000 ma/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2

Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.600000 ma/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. TWA 0.100000 mg/m3 **USA.** Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.300000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. Potential Occupational Carcinogen See Appendix A TWA 0.200000 ma/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.600000 ma/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. PEL 0.005000 mg/m3 **OSHA Specifically Regulated** Chemicals/Carcinogens 1910.1027 This standard applies to all occupational exposures to cadmium and cadmium compounds, in all forms, and in all industries covered by the Occupational Safety and Health Act, except the constructionrelated industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen Potential Occupational Carcinogen See Appendix A Potential Occupational Carcinogen See Appendix A TWA 0.010000

mg/m3 USA. ACGIH Threshold Limit Values (TLV) Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen varies TWA 0.002000 ma/m3 USA. ACGIH Threshold Limit Values (TLV) Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen varies PEL 0.005000 mg/m3 **OSHA** Specifically Regulated Chemicals/Carcinogens 1910.1027 This standard applies to all occupational exposures to cadmium and cadmium compounds, in all forms, and in all industries covered by the Occupational Safety and Health Act, except the constructionrelated industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen TWA 0.1 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. TWA 0.2 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.3 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. CEIL 0.6 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-2 Z37.5-1970 This standard applies to any operations or sectors for which the Cadmium standard, 1910.1027, is stayed or otherwise not in effect. Substance listed; for more information see OSHA document 1910.1027 Potential Occupational Carcinogen See Appendix A TWA 0.01 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Kidney damage Substances for which there is a Biological Exposure Index or Indices

(see BEI® section) Suspected human carcinogen varies TWA 0.002 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen varies PEL 0.005 mg/m3 OSHA Specifically Regulated Chemicals/Carcinogens 1910.1027 This standard applies to all occupational exposures to cadmium and cadmium compounds, in all forms, and in all industries covered by the Occupational Safety and Health Act, except the constructionrelated industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen **Biological occupational exposure limits** Component CAS-No. Parameters Value Biological specimen Basis Cadmium 7440-43-9 cadmium 0.0050 mg/g Urine ACGIH - Biological **Exposure Indices** (BEI) **Remarks Not critical** cadmium 5.0000 μg/l In blood ACGIH - Biological **Exposure Indices** (BEI) Not critical cadmium 5 µg/l In blood ACGIH - Biological **Exposure Indices** (BEI) Not critical cadmium 5µg/g creatinine Urine ACGIH - Biological **Exposure Indices** (BEI) Not critical 8.2 Exposure controls Appropriate engineering controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. **Body Protection** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection 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. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid, granular
Colour: light grey
b) Odor No data available
c) Odor Threshold No data available
d) pH No data available
e) Melting point/freezing
point
Melting point/range: 73 - 77 °C (163 - 171 °F)
Melting point/range: 75 °C (167 °F)
f) Initial boiling point and

boiling range No data available g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available i) Upper/lower flammability or explosive limits No data available k) Vapor pressure No data available I) Vapor density No data available m) Relative density No data available n) Water solubility No data available o) Partition coefficient: noctanol/ water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Strong acids
10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: 1 - Group 1: Carcinogenic to humans (Cadmium) NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Cadmium) OSHA: OSHA specifically regulated carcinogen (Cadmium) Reproductive toxicity No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methodsProductContact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the

material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US) UN number: 3288 Class: 6.1 Packing group: II Proper shipping name: Toxic solid, inorganic, n.o.s. (Cadmium) Reportable Quantity (RQ): 80 lbs Poison Inhalation Hazard: No IMDG UN number: 3288 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Cadmium) Marine pollutant:yes IATA UN number: 3288 Class: 6.1 Packing group: II Proper shipping name: Toxic solid, inorganic, n.o.s. (Cadmium)

SECTION 15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Cadmium CAS-No. 7440-43-9 **Revision Date** 2007-07-01 SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components Cadmium 7440-43-9 2007-07-01 Pennsylvania Right To Know Components Wood's metal CAS-No. 76093-98-6 **Revision Date** Bismuth 7440-69-9 Cadmium 7440-43-9 2007-07-01 New Jersey Right To Know Components Wood's metal CAS-No. 76093-98-6 **Revision Date** Bismuth 7440-69-9 Cadmium 7440-43-9 2007-07-01

California Prop. 65 Components
WARNING! This product contains a chemical known to the
State of California to cause cancer.
Cadmium
CAS-No.
7440-43-9
Revision Date
2009-02-01
WARNING: This product contains a chemical known to the
State of California to cause birth defects or other reproductive
harm.
Cadmium
CAS-No.
7440-43-9
Revision Date
2009-02-01

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.