SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Identifier: Silver Palladium Wire

Product Code: AG-PD-01-W

CAS Number: 60495-83-2

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

Classification:

Label Elements:
None required

Hazards not otherwise classified (HNOC):
Very toxic to aquatic life with long lasting effects

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component / CAS-No:
Palladium / 7440-05-3
Silver / 7440-22-4

SECTION 4. FIRST AID MEASURES

General Advice:
If symptoms persist, call a physician.
Eye Contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact:
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation:
Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion:
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects:
None reasonably foreseeable.
Notes to Physician:
Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Not combustible. approved class D extinguishers.
Unsuitable Extinguishing Media: Water may be ineffective
Flash Point No information available
Method - No information available
Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available
Specific Hazards Arising from the Chemical:
Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous Combustion Products:
Silver oxides Palladium oxide
Protective Equipment and Precautions for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA:
Health: 0
Flammability: 0
Instability: 0
Physical hazards: -

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. No special precautions required.
Environmental Precautions:
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.
Methods for Containment and Clean Up:
Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed
containers for disposal. Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Handling:
Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.
Storage:
Keep in a dry place. Keep away from acids.

SECTION 8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Exposure Guidelines
Component: Silver
ACGIH TLV: TWA: 0.1 mg/m3
OSHA PEL: (Vacated) TWA: 0.01 mg/m3 TWA: 0.01 mg/m3
NIOSH IDLH: IDLH: 10 mg/m3 TWA: 0.01 mg/m3
Mexico OEL (TWA): TWA: 0.1 mg/m3
Engineering Measures: None under normal use conditions
Personal Protective Equipment
Eye/face Protection:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection:
Long sleeved clothing.
Respiratory Protection:
No protective equipment is needed under normal use conditions. No special protective equipment required.
Hygiene Measures:
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance No information available
Odor Odorless
Odor Threshold No information available
pH No information available
Melting Point/Range No data available
Boiling Point/Range No information available
Flash Point No information available
Evaporation Rate Not applicable
Flammability (solid,gas) No information available
Flammability or explosive limits
Upper No data available
Lower No data available
Vapor Pressure <=1100 hPa @ 50 °C
Vapor Density Not applicable
Specific Gravity No information available
Solubility No information available
SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available
Stability Stable: under normal conditions.
Conditions to Avoid: Incompatible products.
Incompatible Materials: Acids
Hazardous Decomposition Products: Silver oxides, Palladium oxide
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Dermal LD50
Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Mist LC50 Based on
ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component: Silver
LD50 Oral: > 2000 mg/kg ( Rat )
LD50 Dermal: LD50 > 2000 mg/kg ( Rat )
LC50 Inhalation: Not listed
Toxicologically Synergistic Products
No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation: No information available
Sensitization: No information available
Mutagenic Effects No information available
Reproductive Effects No information available. Developmental Effects No information available.
Teratogenicity No information available. STOT - single exposure None known
STOT - repeated exposure None known
Aspiration hazard No information available
Symptoms / effects, both acute and delayed
No information available
Endocrine Disruptor Information No information available
Other Adverse Effects The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:
The product contains following substances which are hazardous for the environment. Very toxic to
aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause long-
term adverse effects in the environment. Do not allow material to contaminate ground water system.
Component: Silver
**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:
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 to ensure complete and accurate classification.

**SECTION 14. TRANSPORT INFORMATION**

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

**SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substances List (DSL).
SARA Section 313 (specific toxic chemical listings)
7440-22-4 Silver
California Proposition 65
Prop 65 - Chemicals known to cause cancer
Substance is not listed.
Prop 65 - Developmental toxicity
Substance is not listed.
Prop 65 - Developmental toxicity, female
Substance is not listed.
Prop 65 - Developmental toxicity, male
Substance is not listed.
Information about limitation of use:
For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed.
Annex XIV of the REACH Regulations (requiring Authorisation for use)
Substance is not listed.
Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.