

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Name:** Silver/Palladium/Platinum Conductor Paste

**Product Number:** All applicable American Elements product codes, e.g. AG-PDPT-01-PST

**CAS #:**

**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

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## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS).

Hazards not otherwise classified

No information known.

Label elements

GHS label elements

Not applicable

Hazard pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

WHMIS classification

Not controlled

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1

Physical Hazard = 1

Other hazards  
Evaporation of solvent during the printing or drying of this product  
PBT:  
Not applicable.  
vPvB:  
Not applicable.

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Silver  
7440-22-4

Palladium  
7440-05-3  
75-85%

Platinum  
7440-06-4

2, 2, 4-Trimethyl-1, 3-Pentanediol Monoisobutyrate  
25265-77-4  
15-25%

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### **SECTION 4. FIRST AID MEASURES**

#### Description of First Aid Measures

First-Aid Measures General: Never give anything by mouth to an unconscious person. If exposed and concerned: Get medical advice/attention.

First-aid Measures after Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.

First-aid Measures after Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: Seek medical advice.

First-aid measures after Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures after Ingestion: Rinse mouth. Do not induce vomiting. Get immediate medical advice/attention.

#### Most Important Symptoms and Effects, both Acute and Delayed

Symptoms / Injuries : Possible Sensitizer.

Symptoms / Injuries after Inhalation : May Cause Irritation, Occupational Asthma.

Symptoms / Injuries after Skin Contact : May Cause Irritation, Dermatitis.

Symptoms / Injuries after Eye Contact : May Cause Irritation.

Symptoms / Injuries after Ingestion : May Cause Irritation, Nausea, Vomiting, Diarrhea.

#### Chronic Symptoms :

May Cause Discoloration Of The Skin And Mucous Membranes, Sensitization, Dermatitis .

Indication of any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible)

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## SECTION 5. FIREFIGHTING MEASURES

### Extinguishing Media

Suitable Extinguishing Media : Carbon Dioxide

Unsuitable Extinguishing Media : Do not use a heavy water stream. Use of a heavy stream of water may spread fire.

### Special Hazards Arising from the Substance or Mixture

Fire Hazard : Product is Flammable

Explosion Hazard : Product is not Explosive

Reactivity : Hazardous Reactions are unlikely to occur under normal circumstances

### Advice for Fire Fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Do not allow run-off from fire fighting to enter drains or water sources. Do not allow the product to be released into the environment.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, Protective Equipment and Emergency Procedures

#### For Non-emergency Personnel

Protective Equipment : Use appropriate personal protective equipment (PPE).

Emergency Procedures : Evacuate unnecessary personnel

#### For Emergency Responders

Protective Equipment : Equip cleanup crew with proper protection.

Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area and call for the assistance of trained personnel as soon as conditions permit.

### Environmental Precautions

Prevent entry to sewers and public waters

### Methods and Material for Containment and Cleaning up

For Containment : Absorb and/or contain spill with inert material, then place in suitable container. As an immediate precautionary measure, isolate spill or leak in all directions.

Methods for Cleaning up : Clear up spills immediately and dispose of waste safely. Carefully shovel or sweep up spilled material and place in a suitable container. Avoid generation of dust during clean-up of spills. Contact competent authorities after a spill.

### Reference to Other Sections

See section 8, Exposure controls and Personal Protection. See Section 13, Disposal considerations.

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## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Precautions for safe handling : Use only outdoors or in a well ventilated area. Do not handle until all safety precautions have been read and understood.

Do not breathe dust or fumes. Avoid contact with eyes, skin and clothing.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including and Incompatibilities

Technical measures : Comply with applicable regulations.

Storage Conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up.

Sulfur, Halogens, Arsenic, Bases, Sodium Tetrahydroborate, Strong Acids, Strong Oxidizers

Specific End Use(s)

For Professional use Only.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment: Protective clothing. Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental Exposure Controls: Do not allow the product to be released into the environment

Other Information: When using, do not eat, drink or smoke.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

General Information

Appearance:

Form: paste

Odor: Not determined

Odor threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

Sublimation temperature / start: Not determined

Flash point: Not determined.

Flammability (solid, gaseous)

Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined

Upper: Not determined  
Vapor pressure: Not determined  
Relative density  
Not determined.  
Vapor density  
Not determined.  
Evaporation rate  
Not determined.  
Solubility in / Miscibility with Water: Not determined  
Partition coefficient (n-octanol/water): Not determined.  
Viscosity:  
dynamic: Not determined.  
kinematic: Not determined.

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity  
Shows little/no strong reactivity with acids, bases, or oxidizing agents  
Chemical stability  
Stable under recommended storage conditions.  
Thermal decomposition / conditions to be avoided:  
Decomposition will not occur if used and stored according to specifications.  
Possibility of hazardous reactions  
Reacts with strong oxidizing agents  
Conditions to avoid  
No further relevant information available.  
Incompatible materials:  
No data available  
Hazardous decomposition products:  
Carbon Oxides

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity:  
The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.  
LD/LC50 values that are relevant for classification:  
Oral LD50 3200 mg/kg (rat)  
Skin irritation or corrosion:  
May cause irritation  
Eye irritation or corrosion:  
May cause irritation  
Sensitization:  
No sensitizing effects known.  
Germ cell mutagenicity:  
No effects known.  
Carcinogenicity:  
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.  
Reproductive toxicity:

No effects known.

Specific target organ system toxicity - repeated exposure:

No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

Subacute to chronic toxicity:

No effects known.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity: No further relevant information available.

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

Not hazardous for transportation

UN-Number

DOT, ADN, IMDG, IATA

Not applicable

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA

Not applicable

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class

Not applicable

Packing group

DOT, ADR, IMDG, IATA

Not applicable

Environmental hazards:

Not applicable.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

DOT

Marine Pollutant (DOT):

No

UN "Model Regulation":

Not applicable

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## SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS label elements

Not applicable

Hazard pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

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)

Substance is not listed.

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.

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## SECTION 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

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