# TECHNIC, INC. SAFETY DATA SHEET

# **SECTION 1. IDENTIFICATION**

Product Name: PALLADIUM POWDER 450 Product Code: 11-450 Recommended use: Conductive filler; for industrial use only. Supplier: Technic Inc. 1 Spectacle Street Cranston, RI 02910 USA Telephone no: 401-781-6100 Emergency no: ChemTrec 800-424-9300, Outside the USA and Canada 703-527-3887

# **SECTION 2. HAZARD IDENTIFICATION**

## **Classification:**

Flammable Solids, Category 1 Skin Corrosion/Irritation, Category 2 Eye Damage/Irritation, Category 2A Specific Target Organ Toxicity (Single Exposure), Category 3 (Respiratory System)

## Label elements and precautionary statements:

Signal word: Danger



## Hazards not otherwise classified: None

## Hazard statement(s):

Flammable solid Causes skin irritation Causes serious eye irritation May cause respiratory irritation

## Precautionary statement(s):

Keep away from heat, sparks, open flames and hot surfaces. No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Wear protective gloves, clothing and eye and face protection.
In case of fire: Use dry sand or dry chemical to extinguish.
Wash hands thoroughly after handling.
If on skin: Wash with plenty of soap and water.
Specific treatment (see first aid measures on this label).
If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Avoid breathing dust, fume, gas, mist, vapors or spray.

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.

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

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**CAS Number** 7440-05-3

**EINECS Number** 231-115-6

Concentration

Palladium (metallic)

100%

# **SECTION 4. FIRST AID MEASURES**

## Inhalation:

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

## Skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

## Eye contact:

Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

## Ingestion:

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

# **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Use only powder approved for Class D (metal) fires. Cool endangered containers with water spray.

Unsuitable extinguishing media: Do not use water on metal (Class D) fires.

**Specific hazards in case of fire:** Grinding finely divided powder, particularly with strong oxidizers, may result in an explosion or fire when mixed with air in the proper proportions. Toxic metal fumes may be released in a fire situation.

Special protective equipment and precaution for fire fighters: For fires in enclosed areas, wear selfcontained breathing apparatus and full protective gear. Do not inhale combustion gases.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

#### Methods and materials for containment and cleaning up:

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect by suitable method for palladium recovery. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

#### **Environmental precautions:**

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

## **SECTION 7. HANDLING AND STORAGE**

#### Precautions for safe handling:

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors. Use in well-ventilated area. Do not empty waste into sanitary drains.

#### Conditions for safe storage, including incompatibilities:

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use. Store only in the original container.

# SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure Limits: Ingredient

ACGIH TLV

<u>OSHA PEL</u>

Other Limits

There are no exposure limits established for this material.

#### Appropriate engineering controls:

Use in well-ventilated area with local exhaust.

#### **Respiratory protection:**

Wear appropriate dust mask or approved respirator when using this material.

#### Eye protection:

Chemical splash goggles or safety glasses with side shields must be worn.

#### Skin protection:

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

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

Physical state: Solid, metal powder **Color:** Silver-gray Odor: None Odor threshold: Not available pH: Not applicable Melting/freezing point: 1550 °C (2820 °F) Initial boiling point: Not determined Flash point: Not applicable Evaporation rate: Not available Flammability (solid, gas): Not applicable Upper/lower explosion limits: Non-explosive Vapor pressure: Not determined Vapor density: Not determined **Relative density (H<sub>2</sub>O = 1) @25 °C:** 12.0 Solubility: Insoluble in water at 20 °C; soluble in acid Partition coefficient octanol/water: Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Not applicable Viscosity: Not applicable

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity: Stable, non-reactive when stored and used according to recommendations.
Chemical stability: No decomposition if used according to specifications.
Possibility of hazardous reactions: None are known.
Conditions to avoid: Ignition sources, flames, sparks and static discharge.
Incompatible materials: Strong acids and bases, halogens, arsenic and alcohols.
Hazardous decomposition products: None reported.

# SECTION 11. TOXICOLOGICAL INFORMATION

#### **Routes of Exposure and Symptoms**

**Inhalation:** Causes mild, non-specific irritation of respiratory passages. Prolonged overexposure may cause sensitization and asthmatic effects.

**Ingestion:** Non-specific symptoms may occur due to presence of particulate material.

- Skin Contact: Prolonged contact may cause irritation and dermatitis.
- Eye Contact: Metallic particles will cause mechanical irritation to eye tissue.

#### Acute and Chronic Effects from Short- and Long-term Exposure:

See Routes of Exposure and Symptoms above.

- Acute Oral Toxicity: None reported; palladium is non-toxic.
- Acute Dermal Toxicity: None reported; palladium is non-toxic.
- Acute Inhalation Toxicity: None reported; palladium is non-toxic.
- Acute Eye Irritation: Metal particles cause mechanical irritation to eye tissue.

Dermal Irritation:

Palladium has been reported to cause non-specific skin irritation and contact dermatitis.

Carcinogen Listings:

IARC: No NTP: No OSHA: No

**Reproductive Effects:** No applicable information available.

Target Organ Effects: No applicable information available.

# **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: There are no data reported for this material.

Persistence and degradability: There are no data reported for this material.

Bio-accumulative potential: There are no data reported for this material.

Mobility in soil: There are no data reported for this material.

# SECTION 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal:

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

## **SECTION 14. TRANSPORT INFORMATION**

Classification for shipment by road or rail, sea (IMDG) and air (IATA/ICAO):

UN proper shipping name:	Metal Powders, Flammable, N.O.S. (Palladium)
UN number:	UN3089
Transport hazard class:	4.1
Packing group:	II

Marine Pollutant: No

## **SECTION 15. REGULATORY INFORMATION**

#### **Inventory Status:**

All components are on TSCA, EINECS/ELINCS, AICS, and DSL. U.S. Regulations:

## U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

## SARA (311/312) HAZARD CATEGORIES:

None	<u>X</u> Immediate	Delayed	<u>X</u> Fire	Reactive	Pressure generating
SARA 313 Chemical None	: This product con Name	tains the follow CAS Number	0	313 Toxic Releas Concentr	

The following product components are cited on the lists below:Chemical NameCAS NumberNoneList CitationsCalifornia Proposition 65 List

## **SECTION 16. OTHER INFORMATION**

VOC (Volatile Organic Compounds): None

Health: 2	Flammability: 2	Reactivity: 0	Personal Protection: C

Prepared by: Allan H. Reed

**HMIS Ratings:** 

**SDS Preparation date:** October 8, 2015 **Supersedes previous version:** New SDS.

This SDS contains revisions in the following section(s): Not applicable. New SDS.

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End of Safety Data Sheet