# Heegermaterials

# **SAFETY DATA SHEET**

Creation Date 26-Sep-2009 Revision Date 24-Dec-2024 Revision Number 5

1. Identification

Product Name Palladium on activated carbon, unreduced

Cat No.: HMCC2728

Synonyms No information available

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

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Details of the supplier of the safety data sheet

Company

Heeger Materials Inc. 230 Steele St Denver,

CO 80206

Tel: (925) 385-8104

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Category 2
Combustible dust Yes

**Label Elements** 

Signal Word

Warning

**Hazard Statements** 

Flammable solid

May form combustible dust concentrations in air

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### **Precautionary Statements**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

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

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

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

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Carbon	7440-44-0	90-97	
Palladium	7440-05-3	3-10	

# 4. First-aid measures

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. Get medical attention

immediately if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing,

give artificial respiration.

**Ingestion** Do NOT induce vomiting. Get medical attention.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically

#### 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature 120 °C / 248 °F

**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**

Flammable. Risk of ignition. Dust can form an explosive mixture with air. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

#### **Hazardous Combustion Products**

None known.

#### **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.

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Health	Flammability	Instability	Physical hazards
1	2	0	N/A

# 6. Accidental release measures

**Personal Precautions** 

Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid release to the environment. See Section 12 for additional Ecological Information.

**Environmental Precautions** 

Methods for Containment and Clean Remove all sources of ignition. Sweep up and shovel into suitable containers for disposal.

Up Avoid dust formation. Use spark-proof tools and explosion-proof equipment.

# \_7. Handling and storage

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong acids. Alcohols. Halogens.

# 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Carbon				TWA: 2 mg/m <sup>3</sup>

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

No protective equipment is needed under normal use conditions. **Respiratory Protection** 

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

Powder Solid **Physical State** Black **Appearance** Odorless Odor

No information available **Odor Threshold** 

рΗ Not applicable No data available Melting Point/Range

**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** negligible **Vapor Density** Not applicable

**Specific Gravity** 12.02 Solubility insoluble

Partition coefficient; n-octanol/water No data available **Autoignition Temperature** 120 °C / 248 °F

> 120°C **Decomposition Temperature** Viscosity Not applicable

Molecular Formula Pd Molecular Weight 106.42

# 10. Stability and reactivity

None known, based on information available **Reactive Hazard** 

Stable under normal conditions Stability

Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Conditions to Avoid Is Inc.

Avoid dust formation.

**Incompatible Materials** Strong acids, Alcohols, Halogens

Hazardous Decomposition Products None under normal use conditions

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

#### 11. Toxicological information

**Acute Toxicity** 

No acute toxicity information is available for this product **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. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. Mist LC50

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Carbon	LD50 > 10000 mg/kg (Rat)	Not listed	Not listed

**Toxicologically Synergistic** No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Carbon	7440-44-0	Not listed				
Palladium	7440-05-3	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available. No information available. **Developmental Effects Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Do not empty into drains. .

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

## 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.

## 14. Transport information

DOT

**UN-No** UN3178

**Proper Shipping Name** Flammable solid, inorganic, n.o.s.

**Technical Name** Carbon **Hazard Class** 4.1 Ш **Packing Group** 

**TDG** 

UN3178 **UN-No** 

**Proper Shipping Name** Flammable solid, inorganic, n.o.s.

**Hazard Class** 4.1 **Packing Group** Ш

**IATA** 

**UN-No** 

**Proper Shipping Name** Flammable solid, inorganic, n.o.s.

**Hazard Class** 4.1

#### Palladium on activated carbon, unreduced

**Packing Group** Ш

IMDG/IMO

UN3178 **UN-No** 

**Proper Shipping Name** Flammable solid, inorganic, n.o.s.

**Hazard Class Packing Group** Ш

# 15. Regulatory information

#### **United States of America Inventory**

Com	ponent	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ca	rbon	7440-44-0	X	ACTIVE	-
Pall	adium	7440-05-3	X	ACTIVE	-

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Canada (DSL/NDSL), Europe (EIN (KECL).	JECS/ELINCS/NLP),	Philippir	nes (PICC	S), Japan (E	NCS), Jap	an (ISHL)	, Australia	(AICS), CI	hina (IECS	C), Korea
Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Carbon	7440-44-0	Х		231-153-3	Χ	Х		Х	Х	KE-04671
Palladium	7440-05-3	Х	-	231-115-6	Χ	Х		Х	Х	KE-27744
J.S. Federal Regulations SARA 313	Not applic	able			la	70				
SARA 311/312 Hazard Categ	ories See section	See section 2 for more information								
CWA (Clean Water Act)	Not applic	Not applicable								
Clean Air Act	Not applic	able								

OSHA - Occupational Safety and

Health Administration

Not applicable

**CERCLA** Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Carbon	-	-	-	-	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν DOT Marine Pollutant Ν

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DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

#### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Carbon	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Carbon	7440-44-0	Listed	Not applicable	Not applicable	Not applicable
Palladium	7440-05-3	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Carbon	7440-44-0	Not applicable	Not applicable	Not applicable	Not applicable
Palladium	7440-05-3	Not applicable	Not applicable	Not applicable	Not applicable

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Inc.

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

#### **End of SDS**