spectrum®



SAFETY DATA SHEET

Preparation Date: 8/17/2017	Revision Date: Not Applicable	Revision Number: Not Applicable
	1. IDENTIFICATION	
Product identifier		
Product code:	SP-107	
Product Name:	20% Palladium on Activated Carbon Powder, Catalyst), 24 microns	Unreduced, Water Wet (Pearlman
Other means of identification		
Synonyms:	No information available	
CAS #: RTECS #	Mixture Not available	
CI#:	Not available	
Recommended use of the chem	ical and restrictions on use	
Recommended use:	No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemical Mfg. Corp	
	14422 South San Pedro St.	
	Gardena, CA 90248	
Order Online At:	(310) 516-8000.	
<u>Order Online At:</u> Emergency telephone number	https://www.spectrumchemical.com Chemtrec 1-800-424-9300	
Contact Person:	Martin LaBenz (West Coast)	
Contact Person:	Ibad Tirmiz (East Coast)	

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Label elements

Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation

Product code: SP-107



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

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. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

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Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Water	7732-18-5	50
Charcoal activated	7440-44-0	30
Palladium Metal, powder	7440-05-3	20

4. FIRST AID MEASURES

First aid measures		
General Advice:	National Capital Poison Center in the United States can provide assistan have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.	ance if you
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated shoes. Get medical attention. If skin irritation persists, call a physician.	clothing and
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention. If symptoms persisphysician.	st, call a
Product code: SP-107	Product name: 20% Palladium on Activated Carbon Powder, Unreduced, Water Wet (Pearlman Catalyst), 24 microns	2/13

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Causes eye irritation. Eye contact may result in redness or pain. Causes skin irritation. Skin contact may result in redness, pain, inflammation, itching, scaling. Irritating to respiratory system.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician:	Treat symptomatically.		

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable Extinguishing Media:	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	No information available.
Specific hazards:	No information available.
Special Protective Actions for Firefighters	
Specific Methods:	No information available.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.			
Methods and material for containment and cleaning up				
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.			
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.			
7. HANDLING AND STORAGE				

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Charcoal activated	7440-44-0	None	None	None	None
Palladium Metal,	7440-05-3	None	None	None	None
powder					

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Charcoal activated	7440-44-0	None	None	None	None

Product code: SP-107

Palladium Metal,	7440-05-3	None	None	None	None
powder					

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Water	7732-18-5	None	None
Charcoal activated	7440-44-0	None	2 mg/m³ TWA
Palladium Metal, powder	7440-05-3	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Safety glasses or Goggles
Skin and body protection:	Long sleeved clothing apron Gloves
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. In well ventilated areas or if used in a fume hood, respiratory protection is not normally required.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.
	9. PHYSICAL AND CHEMICAL PROPERTIES

9. F	9. PHYSICAL AND CHEMICAL PROPERTIES						
Physical state: Solid	Appearance: Free flowing wettable powder. Powder wetted with water while keeping free-flowing powder characteristics.	Color: Black.					
Odor: Odorless.	Taste No information available.	Formula: No information available					
Molecular/Formula weight: No information available	Flammability: No information available	Flashpoint (°C/°F): No information available.					
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available					
Upper Explosion Limit (%):							
Product code: SP-107	Product name: 20% Palladium on Activated Carbon Powder, Unreduced Water Wet (Pearlman Catalyst), 24 microns	,	5 / 13				

No information available

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available **Melting point/range(°C/°F):** No information available

Bulk density: No information available

pH: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Insoluble in water **Decomposition temperature(°C/°F):** No information available

Density (g/cm3): No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u> No information available

Chemical stability

Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials.

Incompatible Materials: Oxidizing agents

<u>Hazardous decomposition</u> No information available. products:

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

Component Information

Water	
CAS-No.	7732-18-5

Product code: SP-107

LD50/oral/rat = > 90 mL/kg O		
LD50/oral/mouse = No inform LD50/dermal/rabbit = No inform		
LD50/dermal/rabbit = No information		
LC50/inhalation/rat = No info		
LC50/inhalation/mouse = No	o infomation available	
Other LD50 or LC50informat	ion = No information available	
Charcoal activated		
CAS-No.	7440-44-0	
LD50/oral/rat = >10000 mg/kg	-	
LD50/oral/mouse = >5000 m		
LD50/dermal/rabbit = No info		
LD50/dermal/rat = No information		
LC50/inhalation/rat = No info LC50/inhalation/mouse = No		
	ion = >5000 mg/kg LD50 Oral Dog	
Palladium Metal, powder		
CAS-No.	7440-05-3	
LD50/oral/rat = No informatio		
LD50/oral/mouse = No inform		
LD50/dermal/rabbit = No info		
LD50/dermal/rat = No information	ation available	
LC50/inhalation/rat = No info	ormation available	
LC50/inhalation/mouse = No	o infomation available	
Other LD50 or LC50informat	ion = No information available	
Product Information		
LD50/oral/rat = VALUE- Acute Tox Oral = No inf	formation available	
LD50/oral/mouse = Value - Acute Tox Oral = No info	ormation available	
LD50/dermal/rabbit VALUE-Acute Tox Dermal = No	information available	
LD50/dermal/rat VALUE -Acute Tox Dermal = No	o information available	
LC50/inhalation/rat VALUE-Vapor = No information av VALUE-Gas = No information ava VALUE-Dust/Mist = No informati	ailable	
LC50/Inhalation/mouse VALUE-Vapor = No information a VALUE - Gas = No information a VALUE - Dust/Mist = No informa	vailable	
Symptoms_		
Skin Contact:	Causes skin irritation.	
Eye Contact:	Causes serious eye irritation.	
Product code: SP-107	Product name: 20% Palladium on Activated Carbon Powder, Unreduced, Water Wet (Pearlman Catalyst), 24 microns	7 / 13

Inhalation	Irritating to respiratory system.				
Ingestion	May cause vomiting. May cause constipation.				
Aspiration hazard	No information available.				
Delayed and immediate effects	Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Chronic Toxicity No information available.					
Sensitization:	No information available.				
Mutagenic Effects:	No information available				

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Charcoal activated	7440-44-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Palladium Metal, powder	7440-05-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available			
Reproductive Effects:	No information available			
Developmental Effects:	No information available			
Teratogenic Effects:	No information available			

Specific Target Organ Toxicity

STOT - single exposure	Respiratory system.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

lo information available

- Bioaccumulative potential: No information available.
- Mobility: No information available.

Product code: SP-107

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Charcoal activated	7440-44-0	None	None	None	None
Palladium Metal, powder	7440-05-3	None	None	None	None

14. TRANSPORT INFORMATION

DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
	No information available
Symbol(s):	
Description:	No information available
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
	No information available
Hazard Class:	
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Subsidialy Risk.	
IMO / IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available

Product code: SP-107

RID UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
ICAO UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
IATA UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: ERG Code: Special Provisions	Not Regulated No information available No information available No information available No information available No information available No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	7732-18-5	Present	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Charcoal activated	7440-44-0	Present	Present KE-04671	Present	Not present	Present	Present	Present 231-153-3
Palladium Metal, powder	7440-05-3	Present	Present KE-27744	Present	Not present	Present	Present	Present 231-115-6

U.S. Regulations

Palladium Metal, powder

California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Charcoal activated	7440-44-0	Not Listed	Not Listed	Not Listed	Not Listed
Palladium Metal, powder	7440-05-3	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components CAS-No.	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
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Product code: SP-107

Product name: 20% Palladium on Activated Carbon Powder, Unreduced, Water Wet (Pearlman Catalyst), 24 microns

10/13

		Hazardous Substances and their Reportable Quantities	Extremely Hazardous Substances and TPQs	Extremely Hazardous Substances and RQs	Chemical Category	Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Charcoal activated	7440-44-0	None	None	None	None	None
Palladium Metal,	7440-05-3	None	None	None	None	None
powder						

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Charcoal activated	7440-44-0	Not Applicable	Not Applicable
Palladium Metal, powder	7440-05-3	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification The WHMIS 2015 classification of this product has not been validated or reviewed yet. Information:

Component Water 7732-18-5 (50) Charcoal activated 7440-44-0 (30)

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

The classification of this product has not been validated yet

Components Water

Charcoal activated

WHMIS 1988

Uncontrolled product according to WHMIS classification criteria Uncontrolled product according to WHMIS classification criteria

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Water	7732-18-5	Present	Not Listed
Charcoal activated	7440-44-0	Present	Not Listed
Palladium Metal, powder	7440-05-3	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Charcoal activated	7440-44-0	Not listed
Palladium Metal, powder	7440-05-3	Not listed

Product code: SP-107

Components		CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Water	7732-18-5	Not listed
Charcoal activated	7440-44-0	Not listed
Palladium Metal, powder	7440-05-3	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Charcoal activated	7440-44-0	No information
Palladium Metal, powder	7440-05-3	No information

EU - CLP (1272/2008)

R-phrase(s) Not determined

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Water	7732-18-5		No information	
Charcoal activated	7440-44-0		No information	
Palladium Metal, powder	7440-05-3		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

not determined

16. OTHER INFORMATION

Preparation Date: Revision Date: Prepared by:	8/17/2017 Not Applicable Sonia Owen	
Disclaimer:	All chemicals may pose unknown hazards and should be used with caution. Safety Data Sheet (SDS) applies only to the material as packaged. If this pro- is combined with other materials, deteriorates, or becomes contaminated, it pose hazards not mentioned in this SDS. The physical properties reported in SDS are obtained from the literature and do not constitute product specifical Information contained herein does not constitute a warranty, whether express implied, as to the safety, merchantability or fitness of the goods for a particu- purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It sha the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based or technical data judged to be reliable, Spectrum assumes no responsibility for completeness or accuracy of the information contained herein.	oduct may n this tions. ssed or lar s, t ll be l n
Product code: SP-107	Product name: 20% Palladium on Activated Carbon Powder, Unreduced, Water Wet (Pearlman Catalyst), 24 microns	12 / 13

End of Safety Data Sheet

Product code: SP-107