

SAFETY DATA SHEET

Creation Date 26-Sep-2009	Revision Date 30-Apr-2015	Revision Number 2		
	1. Identification			
Product Name	Palladium on activated carbon	, unreduced		
Cat No. :	AC195030000; AC195030010; AC195030100; AC195030500; AC195032500			
Synonyms	None.			
Recommended Use	Laboratory chemicals.			
Uses advised against <u>Details of the supplier of the safe</u>	No Information available safety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	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		

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

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

Label Elements

Signal Word Warning

Hazard Statements Flammable solid



Precautionary Statements Prevention

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment **Fire** Fight fire with normal precautions from a reasonable distance **Storage** Store locked up <u>Hazards not otherwise classified (HNOC)</u> None identified **Other hazards** May cause eye, skin, and respiratory tract irritation.

Unknown Acute Toxicity

3-10 % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component		CAS-No	Weight %	
Carl	oon	7440-44-0	90-97	
Palla	dium	7440-05-3	3-10	
	4.	First-aid measures		
ye Contact		diately with plenty of water, also under the	e eyelids, for at least 15 minutes.	

	Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Maat immertant aumentama laffaata	No information available

Most important symptoms/effects
Notes to PhysicianNo information available.
Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	120 °C / 248 °F
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 in 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.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) **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.

<u>NFPA</u> Health 1	HealthFlammability12		Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		quipment. Remove all sources nation. Avoid contact with skin, onment.	
Methods for Containment and C Up	6	ition. Sweep up or vacuum up a bid dust formation. Use spark-p	1 0
	7. Handling	and storage	
Handling	Keep away from open flar	nes, hot surfaces and sources	entilation. Avoid dust formation. of ignition. Use spark-proof tools eyes and clothing. Avoid ingestion
Storage	Keep containers tightly clo sources of ignition. Flamm	· · ·	lace. Keep away from heat and

8. Exposure controls / personal protection

Exposure Guidelines

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV		
Carbon		TWA: 2 mg/m ³			
Engineering Measures	electrical/ventilating/lightir	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					
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	Wear appropriate protectiv	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.				
Hygiene Measures	Handle in accordance with	n good industrial hygiene and saf	ety practice.		
	9. Physical and ch	nemical properties			
Physical State		Powder Solid			

	7. Thysical and chemical properties
Physical State	Powder Solid
Appearance	Black
Odor	Odorless
Odor Threshold	No information available
рН	No information available
-	

Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits	No data available No information available No information available No information available No information available
Vapor Pressure Vapor Density Relative Density Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity	No data available No data available negligible No information available 12.02 No information available No data available 120 °C / 248 °F > 120°C No information available
Molecular Formula Molecular Weight	Pd 106.42

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Avoid dust formation.	
Incompatible Materials	Strong acids, Alcohols, Halogens	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information		No acute toxicity ir		•		
Oral LD50		Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				
Dermal LD50		Based on ATE dat				g/kg.
Mist LC50		Based on ATE dat	a, the classification	n criteria are not m	et. ATE > 5 mg/l.	
Component Informati	on					
Component		LD50 Oral		LD50 Dermal	LC50	Inhalation
Carbon		10000 mg/kg (Rat)	Not listed	No	ot listed
Toxicologically Syner	rgistic	No information ava	ailable			
Products	•					
Delayed and immedia	ate effects as we	ell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information available				
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Carbon	7440-44-0	Not listed	Not listed	Not listed	Not listed	Not listed
Palladium	7440-05-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			

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Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
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. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

Mobility

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and Waste Disposal Methods national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

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DOT	
UN-No	UN3178
Proper Shipping Name	FLAMMABLE SOLID, INORGANIC, N.O.S.
Proper technical name	(PALLADIUM ON ACTIVATED CARBON)
Hazard Class	4.1
Packing Group	
TDG	
UN-No	UN3178
Proper Shipping Name	FLAMMABLE SOLID, INORGANIC, N.O.S.
Hazard Class	4.1
Packing Group	
UN-No	UN3178
Proper Shipping Name	FLAMMABLE SOLID, INORGANIC, N.O.S.*
Hazard Class	4.1
Packing Group	
IMDG/IMO	
UN-No	UN3178
Proper Shipping Name	FLAMMABLE SOLID, INORGANIC, N.O.S.
Hazard Class	4.1
Packing Group	
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Carbon	Х	Х	-	231-153-3	-		Х	-	Х	Х	Х
Palladium	Х	Х	-	231-115-6	-		Х	-	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		No No Yes No No
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B4 Flammable solid



16. Other information
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com
26-Sep-2009
30-Apr-2015
30-Apr-2015
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 Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS