

Material Safety Data Sheet

Palladium on Activated Carbon (10% Pd)

ACC# 06142

Section 1 - Chemical Product and Company Identification

MSDS Name: Palladium on Activated Carbon (10% Pd)

Catalog Numbers: AC195030000, AC195030100, AC195030500

Synonyms: None.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
	Activated Carbon	Balance	unlisted
7440-05-3	Palladium	10%	231-115-6

Hazard Symbols: F

Risk Phrases: 7

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: black. Caution! Flammable solid. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic: None

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Use agent most appropriate to extinguish fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Activated Carbon	none listed	none listed	none listed

Palladium	none listed	none listed	none listed
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OSHA Vacated PELs: Activated Carbon: No OSHA Vacated PELs are listed for this chemical.

Palladium: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate clothing to prevent skin exposure.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: black

Odor: Odorless

pH: Not available.

Vapor Pressure: Negligible

Vapor Density: Not available.

Evaporation Rate: Negligible.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: > 100 deg C (> 212.00 deg F)

Flash Point: Not available.

Decomposition Temperature: > 100 deg C

NFPA Rating: Not published.

Explosion Limits, Lower: N/A

Upper: N/A

Solubility: insoluble

Specific Gravity/Density: 12.02 g/cm³

Molecular Formula: Pd

Molecular Weight: 106.42

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Exposure to air, combustible materials, temperatures above 100°C.

Incompatibilities with Other Materials: Strong acids, halogens, oxidizing agents, alcohols, sulfur.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:
 CAS# unlisted.
 CAS# 7440-05-3: RT3480500
 LD50/LC50:
 Not available.
 Not available.

Carcinogenicity:
 CAS# : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 7440-05-3: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
 Epidemiology: No information available.
 Teratogenicity: No information available.
 Reproductive Effects: No information available.
 Neurotoxicity: No information available.
 Mutagenicity: No information available.
 Other Studies: No data available.

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
 RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	FLAMMABLE SOLIDS, ORGANIC, N.O.S. (PALLADIUM ON ACTIVATED CARBON)				FLAMMABLE SOLID ORGANIC NOS (PALLADIUM ON ACTIVATED CARBON)
Hazard Class:	4.1				4.1
UN Number:	UN1325				UN1325

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# is not listed on the TSCA inventory. It is for research and development use only.

CAS# 7440-05-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7440-05-3: flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any

Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None

of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the

chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 7440-05-3 can be found on the following state right to know lists: California.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

F

Risk Phrases:

R 7 May cause fire.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)

CAS# : No information available.

CAS# 7440-05-3: 0

Canada

Canada

CAS# 7440-05-3 is listed on Canada's DSL List. CAS# 7440-05-3 is listed on Canada's DSL List.

This product has a WHMIS classification of B6, D2B.

CAS# is not listed on Canada's Ingredient Disclosure List.

CAS# 7440-05-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# (listed as ** undefined **): OEL-AUSTRALIA:TWA 0.1 mg/m³ OEL-BE
LGIUM:TWA 0.1 mg/m³ OEL-DENMARK:TWA 0.1 mg/m³ OEL-FINLAND:TWA 0.1 mg
/m³;STEL 0.3 mg/m³ OEL-FRANCE:TWA 0.1 mg/m³ OEL-GERMANY:TWA 0.1 mg/m
3 OEL-THE NETHERLANDS:TWA 0.1 mg/m³ OEL-THE PHILIPPINES:TWA 0.1 mg/m
3 OEL-SWEDEN:TWA 0.1 mg/m³ OEL-SWITZERLAND:TWA 0.1 mg/m³;STEL 0.5 mg
/m³ JAN9 OEL-TURKEY:TWA 0.1 mg/m³ OEL-UNITED KINGDOM:TWA 0.1 mg/m³
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW Z
EALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision # 1 Date: 8/02/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.