

Material Safety Data Sheet Palladium(II) chloride

MSDS# 01153

Section 1 - Chemical Product and Company Identification

MSDS Name: Palladium(II) chloride

Catalog AC195200000, AC195200010, AC195200050, AC195200250, AC369670000, AC369670010

Numbers: AC369670010, AC369670050, P6-5

Synonyms: Palladium chloride; Palladous chloride; Palladium dichloride; Dichloropalladium.

Acros Organics BVBA
Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics

Company Identification: (USA)

One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call:

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

7647-10-1

Section 2 - Composition, Information on Ingredients

Chemical Name: Palladium(II) chloride

%: >99

EINECS#: 231-596-2

CAS#:

Hazard Symbols: T+



Risk Phrases: 28 34 40 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! May be fatal if swallowed. May cause allergic skin reaction. Hygroscopic (absorbs moisture from the air). Causes eye and skin burns. Causes digestive and respiratory tract burns. Target Organs: Eyes, skin, mucous membranes.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure

to this material.

Ingestion: May be fatal if swallowed. Causes gastrointestinal tract burns.

Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema

Inhalation: of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause burning sensation, coughing,

wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of

Chronic:

tumors. Chronic exposure may cause effects similar to those of acute exposure.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower

eyelids. Get medical aid.

Skin:

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If

conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical

aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using

oxygen and a suitable mechanical device such as a bag and a mask.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is

capable of creating a dust explosion.

Extinguishing Media:

Autoignition Not applicable. Temperature:

Flash Point: Not applicable.

Explosion Not available Limits: Lower:

Explosion Not available Limits: Upper:

NFPA Rating: health: 3; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty

conditions. Provide ventilation.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation Handling: and accumulation. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Use only in a chemical fume hood. Discard contaminated shoes.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

	+	+	+	++ OSHA	
	Palladium(II) chlor	none listed	none listed	none listed	
	ide				
-	+	+	+	++	٠

OSHA Vacated PELs: Palladium(II) chloride: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Use only under a chemical fume hood.

Exposure Limits

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 appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or

European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: powder and chunks

Color: red-brown
Odor: odorless

pH: Not available

Vapor Pressure: Not available Vapor Density: Not available

Evaporation Rate: Not available Viscosity: Not available

Boiling Point: Not applicable. Freezing/Melting Point: 678 - 680 deg C

Decomposition Temperature:

Solubility in water: Soluble

Specific Gravity/Density: 4.0 @ 18°C

Molecular Formula: PdCl2 Molecular Weight: 177.32

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Deliquescent (tending to absorb atmospheric water vapor and become liquid).

Acids, aluminum, ammonia, magnesium, nitrates, zinc, heat, thiocyanates, organic solvents.

Conditions to Avoid: Dust generation, moisture.

Incompatibilities with

Other Materials

Actus, arumnum, ammonia, magnesium, muates, zine, neat, unocyal

Hazardous Decomposition

Products

Hydrogen chloride, chlorine, oxides of palladium.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7647-10-1: RT3500000

RTECS:

CAS# 7647-10-1: Draize test, rabbit, skin: 100 mg/24H Mild;

Oral, mouse: LD50 = >1 gm/kg; Oral, rat: LD50 = 2704 mg/kg;

LD50/LC50:

Other: LD50 oral rat = 200mg/kg (Seiler, Sigel, Sigel (eds.), Handbook on the toxicity of Inorganic

Compounds, New York, NY: Marcel Dekker, Inc,. 1998, Pg. 518), LD50 oral rat = 25mg/kg (CODEN:

GTPZAB 21 (7), 55, 77, 1957 (Russian article)

Carcinogenicity: Palladium(II) chloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S

Hazard Class: 6.1

UN Number: UN3290 Packing Group: II Canada TDG

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Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+

Risk Phrases:

R 28 Very toxic if swallowed.

R 34 Causes burns.

R 40 Limited evidence of a carcinogenic effect.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7647-10-1: 1

Canada

CAS# 7647-10-1 is listed on Canada's DSL List

Canadian WHMIS Classifications: E, D1A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7647-10-1 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7647-10-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997 Revision #11 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.
