

# SAFETY DATA SHEET

Creation Date 15-Nov-2010

Revision Date 25-Dec-2021

Revision Number 6

## 1. Identification

## **Product Name**

## Palladium(II) chloride

7647-10-1

Cat No. :

## AC369670000; AC369670010; AC369670050; AC369670250

CAS No Synonyms

Recommended Use Uses advised against

Palladium chloride; Palladium dichloride; Palladous chloride Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 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 **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)

Corrosive to metals Acute oral toxicity Serious Eye Damage/Eye Irritation Skin Sensitization

Category 1 Category 4 Category 1 Category 1

#### Label Elements

Signal Word Danger

#### Hazard Statements

May be corrosive to metals Harmful if swallowed May cause an allergic skin reaction Causes serious eye damage



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Keep only in original container

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

## Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

## Rinse mouth

Spills

Absorb spillage to prevent material damage

## Storage

Store in corrosive resistant polypropylene container with a resistant inliner

### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Palladium(II) chloride	7647-10-1	>95

	4. First-aid measures
General Advice	If symptoms persist, call a physician.
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. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and Causes severe eve damage. May cause allergic skin reaction. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of effects allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing Notes to Physician Treat symptomatically 5. Fire-fighting measures Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. **Unsuitable Extinguishing Media** No information available No information available **Flash Point** No information available Method -**Autoignition Temperature** Not applicable **Explosion Limits** No data available Upper No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available **Specific Hazards Arising from the Chemical** Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. **Hazardous Combustion Products** Chlorine. Hydrogen chloride gas. **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.

NFPA Health 3	Flammability 1	<b>Instability</b> 0	Physical hazards N/A				
	6. Accidental rel	ease measures					
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.						
Environmental Precautions							
Methods for Containment and Up	I Clean Sweep up and shovel into s containers for disposal.	suitable containers for disposa	I. Keep in suitable, closed				
	7. Handling a	and storage					
Handling			ure adequate ventilation. Avoid Avoid ingestion and inhalation.				
Storage.			tilated place. Corrosives area. acids. Metals. Ammonia. Strong				
	3. Exposure controls	personal protecti	on				
Exposure Guidelines		ain any hazardous materials w jion specific regulatory bodies.					

Engineering Measures	Ensure adequate ventilation, especially in confined areas. 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 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 good industrial hygiene and safety practice.			

# 9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Red brown
Odor	Odorless
Odor Threshold	No information available
рН	2.15 30 g/l aq.sol
Melting Point/Range	678 - 680 °C / 1252.4 - 1256 °F
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	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	31.99 g/L water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	CI2 Pd
Molecular Weight	177.31
-	

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.		
Incompatible Materials	Strong oxidizing agents, Strong acids, Metals, Ammonia, Strong bases		
Hazardous Decomposition Products Chlorine, Hydrogen chloride gas			
Hazardous Polymerization	Hazardous polymerization does not occur.		

## **Hazardous Reactions**

None under normal processing.

11. Toxicological information

Acute Toxicity

Component		LD50 Oral		LD50 Dermal	LC50	LC50 Inhalation		
Palladium(II) chloride LD50 = 2704 mg/kg ( Ra		Rat)	Not listed		ot listed			
Foxicologically Syn Products Delayed and immed	-	No information ava		d long-term expo	sure_			
rritation		Causes severe ey	e irritation and pos	sible burns				
Sensitization		May cause sensiti	zation by skin cont	act				
Carcinogenicity		Possible cancer h	azard. May cause	cancer based on a	nimal data.			
Component	CAS No		NTP	ACGIH	OSHA	Mexico		
Palladium(II) chloride	7647-10-	-	Not listed	Not listed	Not listed	Not listed		
Iutagenic Effects		Not mutagenic in A	AMES Test					
Reproductive Effect	ts	No information ava	No information available.					
Developmental Effe	cts	No information ava	No information available.					
<b>Feratogenicity</b>		No information ava	No information available.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	No information available					
Symptoms / effects delayed	s,both acute	perforation: Symp	perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle					
Endocrine Disrupto	r Informatio	n No information ava	No information available					
Other Adverse Effect	cts	The toxicological p	The toxicological properties have not been fully investigated.					
		12. Ecol	ogical infor	mation				
Ecotoxicity Very toxic to aquatic substances which are	organisms, r e hazardous	nay cause long-term adv for the environment.	verse effects in the	aquatic environme	ent. The product co	ontains followir		
Porsistance and De	aradahility	Soluble in water						

Persistence and Degradability Soluble in water			
Bioaccumulation/ Accumulation No information available.			
Mobility	Will likely be mobile in the environment due to its 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	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Technical Name	Palladium(II) chloride
Hazard Class	8
Packing Group	III
<u>_TDG</u>	
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class	8
Packing Group	
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Palladium(II) chloride	7647-10-1	Х	ACTIVE	-

#### Legend:

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

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Palladium(II) chloride	7647-10-1	Х	-	231-596-2	Х	Х	Х	Х	Х	KE-27746

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

CERCLA	Not applicable
California Proposition 65 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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

#### 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)
Palladium(II) chloride	7647-10-1	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)
Palladium(II) chloride	7647-10-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	15-Nov-2010 25-Dec-2021 25-Dec-2021 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 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