

SAFETY DATA SHEET

Creation Date 26-Sep-2009	Revision Date 19-Jan-2018	Revision Number 6
	1. Identification	
Product Name	Bis(triphenylphosphine)palladium(II) chlor	ide
Cat No. :	AC299250000; AC299250025; AC29925005 AC299251000; AC299252500	0; AC299250250;
CAS-No Synonyms	13965-03-2 Dichlorobis(triphenylphosphine)palladium(II)	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sa	fety data sheet	
<u>Company</u> Fisher Scientific	Acros Organics	

Fisher Scientific 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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

Hazard Statements

Precautionary Statements

Hazards not otherwise classified (HNOC) May cause long lasting harmful effects to aquatic life

3. Composition	Information on	Ingredients

Component	CAS-No	Weight %
Dichlorobis(triphenylphosphine)palladium	13965-03-2	>95

4. First-aid measures			
General Advice	If symptoms persist, call a	physician.	
Eye Contact	Rinse immediately with ple medical attention.	enty of water, also under the eyel	ids, for at least 15 minutes. Get
Skin Contact	Wash off immediately with call a physician.	plenty of water for at least 15 mi	nutes. If skin irritation persists,
Inhalation	Move to fresh air. If not bre symptoms occur.	eathing, give artificial respiration.	Get medical attention if
Ingestion	Clean mouth with water an symptoms occur.	nd drink afterwards plenty of wate	er. Get medical attention if
Most important symptoms and	No information available.		
effects Notes to Physician	Treat symptomatically		
5. Fire-fighting measures			
Suitable Extinguishing Media		esistant foam, dry chemical or ca	arbon dioxide.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature	>230 °C / >446 °F		
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available		
Specific Hazards Arising from the Chemical Risk of ignition. After use: spent catalysts may become explosive.			
Hazardous Combustion Products Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO ₂) Oxides of phosphorus Phosphorus trihydride (phosphine) 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 0	Flammability 1	Instability 0	Physical hazards N/A

	6. Accidental release measures
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in Up suitable, closed containers for disposal.

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on

	skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region 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	Long sleeved clothing.
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 a	and chemical properties
Physical State	Powder Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	260 °C / 500 °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	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	>230 °C / >446 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C36 H30 Cl2 P2 Pd
Molecular Weight	701.89
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10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable under normal conditions.

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Conditions to Avoid	Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO ₂), Oxides of phosphorus, Phosphorus trihydride (phosphine)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.
	11. Toxicological information
Acute Toxicity	
Product Information	
Component Information Toxicologically Synergistic Products	No information available
	ell as chronic effects from short and long-term exposure
Irritation	Irritating to eyes, respiratory system and skin
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Dichlorobis(triphenylph osphine)palladium Mutagenic Effects Reproductive Effects Developmental Effects		Not listed No information ava No information ava No information ava		Not listed	Not listed	Not listed
Reproductive Effects Developmental Effects		No information ava				
Developmental Effects			ailable.			
•	S	No information ava				
Toroto noniolty			ailable.			
Teratogenicity		No information available.				
STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard		No information ava	ailable			
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information		No information ava	ailable			
Other Adverse Effects	S	The toxicological p	properties have not	been fully investig	gated.	
		12. Ecolo	ogical infor	mation		

Do not empty into drains. .

Persistence and Degradability	Insoluble in water
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

	13. Disposal considerations
aste 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 TDG IATA	Not regulated		
TDG	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

All of the components in the product are on the following Inventory lists: The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe X = listed U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS) Philippines Complete Regulatory Information contained in following SDS's

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dichlorobis(triphenylphosphin	-	-	-	237-744-2	-		Х	-	-	-	-
e)palladium											

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 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA Occupational Safety and Health Not applicable	Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

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

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	26-Sep-2009 19-Jan-2018 19-Jan-2018 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