

#### Safety Data Sheet P911A58

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/09/2019 Version: 1.0

**SECTION 1: Identification** Identification 1.1. Product form : Substance Substance name : [1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II) CAS No 72287-26-4 Product code : P911-A-58 Formula C34H28Cl2FeP2Pd : [1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II) Synonyms : MFCD00015757 Other means of identification Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4 **Emergency telephone number** Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification **Classification of the substance or mixture** 2.1. **Classification (GHS-US)** Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 Label elements 2.2. **GHS-US** labeling Hazard pictograms (GHS-US) GHS07 Signal word (GHS-US) : Warning Hazard statements (GHS-US) H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

- P321 Specific treatment (see supplemental first aid instructions on this label)
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention

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	P403 P405	+P364 - Take off contaminated +P233 - Store in a well-ventilat - Store locked up - Dispose of contents/containe	ed place. Keep contain	er tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
[1,1'-Bis(diphenylphosphino)ferrocene]dichloropalla (Main constituent)	adium(II)	(CAS No) 72287-26-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	<ul> <li>In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.</li> </ul>			
First-aid measures after inhalation		ove person to fresh air and kee ration. Get medical advice/atter		hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash	with plenty of soap and water.	. Get medical advice/at	tention.
First-aid measures after eye contact	prese	ent and easy to do. Continue rir	nsing. Get medical advi	
First-aid measures after ingestion		OT induce vomiting. Never give h out with water. Get medical a		an unconscious person. Rinse
4.2. Most important symptoms and eff	ects, both	acute and delayed		
Symptoms/injuries		nost important known symptom and/or in section 11.	is and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate media	cal attentio	n and special treatment need	led	
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxi ppriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the s	substance	or mixture		
Fire hazard		nal decomposition generates: ( s. Phosphorus oxides.	Carbon oxides. Hydrog	en chloride. Iron oxides. Palladium
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective ratus. For further information re		n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release me	asur <u>es</u>			
6.1. Personal precautions, protective		and emergency procedures		
General measures		uate unnecessary personnel. E	nsure adequate air ver	ntilation. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures	: Only	qualified personnel equipped w	vith suitable protective	equipment may intervene.
6.1.2. For emergency responders Protective equipment	: Do no	ot attempt to take action withou	t suitable protective eq	uipment. For further information

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6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so.	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.	
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, includ	ling any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	
SECTION & Experier controls/par	construction	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
No additional information available		

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 266 - 283 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 731.7 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong of	oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTIO	DN 12: Ecological information		
12.1.	Toxicity		
No additi	onal information available		
12.2.	Persistence and degradability		
No additi	onal information available		
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additi	onal information available		

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#### Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal consideration	ons		
13.1.         Waste treatment methods           Waste treatment methods         Image: Comparison of the second secon	· Pomovo to on o	uthorized incinerator equipped w	ith an afterburner and a flue gas scrubber.
Waste disposal recommendations			licensed collector's sorting instructions.
Additional information	•	erial as far as possible.	
SECTION 14: Transport information	2	·	
Department of Transportation (DOT)			
In accordance with DOT			
Not regulated for transport			
TDG			
No additional information available			
Transport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory informatic	on		
15.1. US Federal regulations			
All components of this product are listed, or e Substances Control Act (TSCA) inventory exc		n the United States Environment	al Protection Agency Toxic
[1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II)		CAS No 72287-26-4	100%
This product or mixture does not contain a to CFR §372.38(a) subject to the reporting requi and 40 CFR Part 372.			
15.2. International regulations			
CANADA No additional information available			
EU-Regulations			
[1,1'-Bis(diphenylphosphino)ferrocene]dic			
Listed on ELINCS (European List of Notified C	Chemical Substances		
National regulations			
[1,1'-Bis(diphenylphosphino)ferrocene]dic	hloropalladium(II) (7	2287-26-4)	
Listed on NZIoC (New Zealand Inventory of C	'hemicals)		

Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### SECTION 16: Other information

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Full tex	t of H-phrases:	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA	health hazard fire hazard reactivity	<ul> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS I Health Flamm Physica		<ul> <li>2 Moderate Hazard - Temporary or minor injury may occur</li> <li>0 Minimal Hazard - Materials that will not burn</li> <li>0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.</li> </ul>

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.