

Revision number: 1.1 Revision date: 07/06/2018

# 1. IDENTIFICATION

# TCI AMERICA SAFETY DATA SHEET

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Product name: Product code:	[1,1'-Bis(diphenylphosphino)ferrocene]palladium(II) Dichloride Dichloromethane Adduct B2064			
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.			
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) <b>Responsible department:</b> TCI America Environmental Health Safety and Security +1- 503-286-7624		
2. HAZARD(S) IDENTIFICATION				
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]			
Signal word:	Warning!			
Hazard Statement(s):	Harmful if swallowed, in contact with skin or if inhaled Causes skin irritation Causes serious eye irritation			
Pictogram(s) or Symbol(s):				
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Precautionary Statement(s): [Prevention]	Avoid breathing dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wea protective gloves, protective clothing, eye protection.			
[Response]	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. Call a poison center or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40			
[Disposal]	nd Cleaning Act, etc.).			
Hazards not otherwise classified: [HNOC]	None.			

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS Substance/mixture: Substance **Components:** [1,1'-Bis(diphenylphosphino)ferrocene]palladium(II) Dichloride Dichloromethane Adduct Percent: >98.0%(T) CAS RN: 95464-05-4 Molecular Weight: 816.64 **Chemical Formula:** C34H28Cl2FeP2Pd · CH2Cl2 [1,1'-Bis(diphenylphosphino)ferrocene]dichloropalladium(II) Dichloromethane Adduct , Synonyms: Dichloro[1,1'-bis(diphenylphosphino)ferrocene]palladium(II) Dichloromethane Adduct 4. FIRST-AID MEASURES Description of first aid measures Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact: Continue rinsing. If eye irritation persists: Get medical advice/attention. Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Symptoms/effects: Acute: Redness. Delayed: No data available Indication of any immediate medical attention: Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Specific hazards arising from the chemical: These products include: Carbon oxides Halogenated compounds Phosphates Metallic oxides Hazardous combustion products: Other specific hazards: WARNING: Highly toxic HCl gas is produced during combustion. Wear self-contained breathing apparatus if possible. Advice for firefighters: 6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to equipment and emergency procedures: non-involved personnel should be controlled around the leakage area by roping off, etc. **Environmental precautions:** Prevent product from entering drains. Methods and materials for containment Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected and cleaning up: material should be promptly disposed of, in accordance with appropriate laws and regulations. 7. HANDLING AND STORAGE Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. Conditions for safe storage, including any incompatibilities

 Storage conditions:
 Keep container tightly closed. Store in a cool and dark place.

 Storage material:
 Store away from incompatible materials such as oxidizing agents.

 Comply with laws.
 Comply with laws.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.		
Personal protective equipment			
Respiratory protection:	Dust respirator. Follow local and national regulations.		
Hand protection:	Protective gloves.		
Eye protection:	Safety glasses. A face-shield, if the situation requires.		
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Yellow - Deep yellow red No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	268°C (dec.) (514°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas): Solubility(ies):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
[Water] [Other solvents]	No data available No data available		

# 10. STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:No special reactivity has been reported.Incompatible materials:Oxidizing agentsHazardous decomposition products:Carbon dioxide, Carbon monoxide, Hydrogen chloride, Phosphorus oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				]
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.			
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.			
14. TRANSPORT INFORMATION				
DOT (US)	Non-hazardous fo	r transportation.		
IATA	Non-hazardous fo	r transportation.		
IMDG	Non-hazardous fo	r transportation.		

15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

#### US Federal Regulations

**CERCLA Hazardous substance and Reportable Quantity:** SARA 313: Not Listed SARA 302: Not Listed State Regulations State Right-to-Know Massachusetts Not Listed **New Jersey** Not Listed Pennsylvania Not Listed California Proposition 65: Not Listed **Other Information NFPA Rating: HMIS Classification:** Health: 2 Health: Flammability: Flammability: 0 Instability: 0 Physical: International Inventories

#### 16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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