



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
×	Harmful compound, minimize exposure. Irritating to skin, eyes, and the respiratory system.	

Section I. C	hemical Product and Company Id	lentification	
Chemical Name	Bis(2,4-pentanedionato))palladium(II)	
Catalog Number	B2018	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Acetylacetone Palladium(II) Salt; Palladium(II) Acetylacetonate		Portland OR 1-800-423-8616
Chemical Formula	$C_{10}H_{14}O_4Pd$		***************************************
CAS Number	14024-61-4	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II.	Composition a	nd Informa	tion on In	gredients	
Chemical Name		CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Bis(2,4-pentanedionato)palladium(II)		14024-61-4	Min. 98.0 (T)	Not available.	Not available.

Section III.	Hazards Identification
Acute Health Effects	Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do no improve.	
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.	

Section V.	Fire and Explosion Data		
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO,	CO ₂). Some metallic oxides.	
Fire Hazards	Not available.		
Explosion Hazards	Risks of explosion of the product in presence Risks of explosion of the product in presence		
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Consult with local fire authorities before atten		perations.

B2018 Bis(2,4-pentanedionato)palladium(II) Page 2 Section VI. Accidental Release Measures Spill Cleanup Harmful material. Irritating material. Use a shovel to put the material into a convenient waste disposal container. Consult federal, state, and/or local authorities for Instructions assistance on disposal. Section VII. Handling and Storage HARMFUL. IRRITANT. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and Handling and Storage store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust. Information Always store away from incompatible compounds such as oxidizing agents Section VIII. Exposure Controls/Personal Protection Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a Personal Protection specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Not available. **Exposure Limits** Section IX. Physical and Chemical Properties Solid. (Yellow crystalline powder.) Physical state @ 20°C Solubility Soluble in toluene, benzene, chloroform. Insoluble in water. Not available. Specific Gravity 304.64 Partition Coefficient Molecular Weight Not available 300 °C (572 °F) @ 0.1 mmHg 0.1 mmHg (@ 160°C) **Boiling Point** Vapor Pressure 200 to 251 °C (392 to 483.8 °F) (dec.) Melting Point Vapor Density Not available Not available. Volatility Not available. Refractive Index Critical Temperature Not available Not available Odor Not available. Not available. Viscosity Taste Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with oxidizing agents. Section XI. Toxicological Information RTECS Number Not available. Routes of Exposure Eye Contact. Ingestion. Inhalation. Toxicity Data Not available. Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Acute Toxic Effects Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound Section XII. Ecological Information

Section XII. Ecological Information Ecotoxicity Not available. Environmental Fate Not available.

Waste Disposal	Recycle to process, if possible. Consult your local regional authorities. 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. Observe all federal, state and local regulations when disposing of the substance.
Section XIV. 7	ransport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	

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Section XV.	Other Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	On NDSL.
EINECS Number (EEC)	237-859-8
EEC Risk Statements	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin.
Japanese Regulatory Data	ENCS No. 2-2181

Section XVI. Other Information

Version 1.0 Validated on 4/22/2011. Printed 4/22/2011.

B2018

Disposal Considerations

Section XIII.

Notice to Reader

TCI laboratory 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 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, 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 MSDS sheets 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 MSDS sheets 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, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

Printed 4/22/2011