Click http://www.guidechem.com/cas-531/53189-26-7.html for suppliers of this product

Palladium, hexakis[m-(acetato-kO:kO')]tri-, cyclo (cas 53189-26-7) MSDS

Johnson Matthey
PD-111 HEXAKIS/ACETATO/TRI/PALLADIUM(II)
179111 3.00 EC Current 15.09.2000

1. PRODUCT AND COMPANY IDENTIFICATION

179111
Product Code
PD-111 HEXAKIS/ACETATO/TRI/PALLADIUM(II)
Trade Name
Substance
Product Type
Johnson Matthey PLC
Manufacturer/Supplier
Precious Metals Division, Chemicals
Address
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ROYSTON, Hertfordshire
SG8 5HE
+(44) 1763 253000
Phone Number
+(44) 1763 253155
Fax Number
Palladium(II) Acetate trimer, [Pd(CH\text{COO})\text{]}_3]
Composition
2
JM Version Number
14/02/96
date of First Issue

2. COMPOSITION/INFORMATION ON THE COMPONENTS

PD-111 HEXAKIS/ACETATO/TRI/PALLADIUM(II)
Product Formal Name
Not Specified
Product Chemical Family
53189-26-7
CAS Number

3. HAZARD IDENTIFICATION

This compound is a severe eye irritant and a moderate skin irritant, and is also expected to irritate the respiratory tract if inhaled as a dust. It is of low acute toxicity. There is no evidence that palladium compounds present an allergy problem, similar to that observed with corresponding platinum compounds.

4. FIRST AID MEASURES

Over-exposure to this material may produce the following symptoms -

First Aid
Inhalation: irritation of the respiratory system with coughing. Ingestion: abdominal pain and vomiting. Eye contact: severe pain, blurred vision and possible blindness. ?? ??

First Aid - Inhalation remove from exposure and allow to rest in fresh air, if symptoms persist seek medical attention. ?

First Aid - Ingestion
rinse mouth with clean water and give clean water or milk to drink. Seek medical advice.

First Aid - Eyes rinse with clean water or isotonic saline solution for 15 minutes, seek medical attention urgently. ??
wash skin with soap and water.

First Aid - Skin

5. FIRE FIGHTING MEASURES
Although the material is not flammable, toxic fumes will be produced if involved in a fire. The residue, ash or char left after a fire may have catalytic properties and may promote the re-ignition of flammable materials and vapours. Wear self-contained breathing apparatus and personal protective equipment. Use any extinguisher suitable for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES
Wearing gloves and eye protection, sweep up the spillage and store in sealed, plastic containers, ready for disposal. Wash the area with water.

7. HANDLING AND STORAGE

Johnson Matthey
PD-111 HEXAKIS(ACETATO)TRIPALLADIUM(II)
179111 3.00 EC Current 15.09.2000

7. HANDLING AND STORAGE (continued)

If the process is dusty or if fume is created, local exhaust extraction should be used and protective clothing, including gloves and eye protection, should be worn. There are no special requirements if used under ordinary conditions and with adequate ventilation. Store in a cool, dry area away from incompatible materials, such as liquid halogenated hydrocarbons and oxidising agents. Protect from physical damage. Powder and other active forms should be kept in tightly sealed containers under nitrogen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
No Occupational Exposure Standards have been established for this material. Users are advised to minimise exposure. If necessary, appropriate filter-type mask, chemically resistant gloves and suitable eye protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES
orange-brown needles.
Appearance
No odour.
Odour
not applicable
pH
not applicable.
Boiling Range/Point
decomposes in the range 194-205°C.
Melting Point
not applicable.
Flash Point
not flammable.
Flammability
not applicable.
Auto-flammability
not explosive.
Explosive Properties
not oxidising.
Oxidising Properties
no data.
Vapour Pressure
no data.
Density
Water - insoluble.
Solubility in Water
Fat - no data. Fairly soluble in ethanol. Soluble in chloroform, methylene dichloride, acetone, acetonitrile and di-ethyl ether. 10. STABILITY AND REACTIVITY

Users should note that, whilst this material is not impact or friction sensitive, calorimetric studies indicate that decomposition is accompanied by an extremely high exotherm. The temperature of this material should not be allowed to exceed 175°F.

Palladium(II)acetate trimer is soluble with decomposition in hydrochloric acid and aqueous potassium iodide solutions. It is insoluble in solutions of sodium chloride, sodium nitrate or sodium acetate. When warmed with alcohols, it decomposes.

Palladium/acetic acid compounds have been reported as causing explosions when used for the synthesis of poly(phenylacetylene).

11. TOXICOLOGICAL INFORMATION

LD50 (oral-rat): >5000 mg/kg.
skin-rabbit: slight irritant.
eye-rabbit: severe irritant/corrosive.

12. ECOLOGICAL INFORMATION

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179111 3.00 EC Current 15.09.2000

12. ECOLOGICAL INFORMATION (continued)
No specific information is available, but this material is not thought to present an ecological hazard.

13. DISPOSAL
Accumulated wastes and residues should be returned to a refinery for metal recovery or disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION
Not restricted.

15. REGULATORY INFORMATION
Irritant
Labelling Information

R38 Irritating to skin.
R phrases
R41 Risk of serious damage to eyes.
S22 Do not breathe dust.
S phrases
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
2584249
EINECS Number
XI - Irritant
EC Annex I Classification

16. OTHER INFORMATION
30 July 1999
MSDS first issued
15 September 2000
MSDS data revised

This 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. Such information is given in good faith, being based on the latest information available to Johnson Matthey PLC and is to the best of Johnson Matthey PLC’s knowledge and belief, accurate and reliable at the time of preparation. However, no representation, warranty or guarantee is made as to the accuracy, liability or
completeness and Johnson Matthey PLC assumes no responsibility therefore, and disclaims any liability for any loss, damage or injury howsoever arising (including in respect of any claim brought by any third party) incurred using this information. The product is supplied on the condition that the user accepts responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Freedom from patent or any other proprietary rights of any third party must not be assumed.

Reference Sources

REFERENCE SOURCES

Registry of Toxic Effects of Chemical Substances. Published by the National Institute of Occupational Safety and Health. USA.
Oil and Hazardous Materials Technical Assistance Data System. Published by the Office of Water and Waste Management. Environmental Protection Agency USA.
Chemical Hazard Response Information System. Published by US Coast Guard.
NIOSHHTIC Occupational Safety and Health database. Published by the National Institute of Occupational Safety and Health. USA.
HSELINE Health and Safety Executive Library and Information Service. Published by the Health and Safety Executive. UK.
CISDOC International Occupational Safety and Health Database. Published by the International Labour Organisation. Geneva.
RISKLINE. Published by the National Chemical Inspectorate. Sweden.
TOXLINE. Published by the Chemical Abstracts Service. USA.
Developmental and Reproductive Toxicology. The National Library of Medicine. USA.
Toxicity, Bibliography. The National Library of Medicine. USA.
Environmental Mutagen Information. Oak Ridge National Laboratory. USA.
Environmental Teratology Information. Oak Ridge National Laboratory. BIOSIS. Published by Biological Abstracts Inc. USA.
Epidemiology Information. The Food and Drug Administration. International Pharmaceutical Abstracts. The American Society of Hospital Pharmacists. USA.
Toxicology Document and Data Depository. National Technical Information Service. USA.
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Johnson Matthey
PD-111 HEXAKIS(ACETATO)TRIPALLADIUM(II)
179111 3.00 EC Current 15.09.2000

16. OTHER INFORMATION (continued)
Toxic Substances Control Act Test Submissions. The Environmental Protection Agency. USA.
Patty's Industrial Hygiene and Toxicology. 3rd edition.
Bretherick's Handbook of Reactive Chemical Hazards. 5th edition.
Grant's Toxicology of the Eye. 3rd edition.
Merck Index. 10th edition.
Handbook on Toxicology of Inorganic Compounds. Seiler, Sigel and Sigel.
Catalog of Teratogenic Agents. Shepard. 4th edition
Reproductive Hazards of Industrial Chemicals. Barlow and Sullivan.
Royal Society of Chemistry. Chemical Safety Data Sheets.
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