



BANGALORE REFINERY

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: Tetrakis (Triphenylphosphine) Palladium CAS No: 14221-01-3 Chemical Formula: $[(C_6H_5)_3P]_4Pd$	Contact Information: Bangalore Refinery Private Limited No.6/1, Plot No. 20A, KIADB Main Road, 1st Cross, 1st, Phase, Peenya , Industrial Area Bangalore-560 058. Tele-Phone : +91-9845028000 / +91-80-41141999 E-mail : rand@bangalorerefinery.com ketan@bangalorerefinery.com enquiry@bangalorerefinery.com
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS No	% by Weight
Tetrakis (Triphenylphosphine) Palladium	14221-01-3	100

Section 3: Hazards Identification

Potential Acute Health Effects:

Not classified under the Hazardous Products Regulations

Precautionary Statements Other Hazards

May cause harmful effects to aquatic life

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

Flush with copious amounts of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Wash clothing/shoes thoroughly before use.

Serious Skin Contact:

Wash skin with soap and water for at least 15 mins while removing contaminated clothing and shoes. Get immediate medical attention. Wash clothing/shoes thoroughly before reuse.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion:

Do not induce vomiting. 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. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Toxic fumes may be available in fire

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Do not release runoff from fire control methods to sewers or waterways.

Section 6: Accidental Release Measures

Spill/Leak Procedures: Prevent wastage: conserve, accumulate spent residue wipes, etc. For recovery of precious metal in appropriate containers which have chemical identification and hazard warning information. Wear protective clothing and respiratory protection.

Containment: for large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Section 7: Handling and Storage

Precautions: Keep locked up Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as acids.

Storage: Keep in a cool, dry, well ventilated place away from incompatible materials and conditions. Use proper labelling in accordance

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Provide general or local exhaust ventilationsystems to maintain airborne concentrations.Local exhaust ventilation is preferred because it prevents contamination dispersioninto the work area by controlling it as its source.

Personal protective equipment

Eye Protection : Wear safety goggles/glasses.

Protective Clothing : Wear disposable protective clothing to prevent exposure. Protective clothing includes lab coat and apron, flame and chemical resistant covers all, and boots/ safety shoes to prevent prolonged or repeated skin contact.

Safety stations: Where there is possibility that an employee's eyes may be exposed to the product, an eyewash fountain should be provided within the immediate work area for emergency use.Safet drench shower and hygenic facilities are available in production areas.

Follow good ib=ndustrial hygenie and housekeeping practices. Do not eat,drink, or smoke while working with this material. Wash hands befre eating, drinking,smoking or applying

Section 9: Physical and Chemical Properties

Physical State : Solid

Appearance & Odor : Pale yellow crystal Powder

Odor Threshold: Not applicable

Vapour Pressure : Not applicable

Vapour Density : Not applicable

Density : Not Applicable

Water Solubility: Insoluble

Boiling Point : Not Applicable

Melting Point : 100-5 C

Viscosity : Not applicable

Refractive Index : Not Applicable

Evaporation Rate : Not Applicable

Section 10: Stability and Reactivity Data	
Stability	Stable at ordinary temperature in absence of Oxygen
Conditions to Avoid	Contact with Oxygen
Chemical Incompatibilities	: Not Known
Hazardous Decomposition	: Not Known

Section 11: Toxicological Information	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Reproductive Effects	No information available.
Developmental Effects	No information available.

Section 12: Ecological Information	
Toxicity	No additional information available
Persistence and degradability	No additional information available
Bioaccumulative potential	No additional information available
Mobility in soil	No additional information available
Results of PBT and vPvB assessment	No additional information available
Other adverse effects	No additional information available

Section 13: Disposal Considerations	
Disposal:	
Return accumulated residues, wipes, mops, sand and vermiculite to precious metal refinery for metal recovery.	

Section 14: Transport Information

Classification: Not regulated

Identification : Not regulated

Special Provisions for Transport: Not regulated

Section 15: Other Regulatory Information

Protective Equipment: Gloves. Lab coat. Vapour and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Bangalore Refinery Pvt Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Bangalore Refinery Pvt Ltd. has been advised of the possibility of such damages.