

**SECTION 1: Product Identification**

Chemical Name:	Palladium, 5% on calcium carbonate, lead-poisoned (LINDLAR CATALYST)
Product Number:	105A
CAS Registry Number:	7440-05-3
Formula:	Pd on CaCO ₃
EINECS Number:	231-115-6
Chemical Family:	supported metal catalyst
Synonym:	none

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-05-3	5	no data	no data
lead	7439-92-1	<1	0.05mg/m ³ (as Pb)	0.05mg/m ³ (as Pb)
calcium carbonate	1317-65-3	95	10mg/m ³	15mg/m ³ (as total dust)

SECTION 3: Hazards Identification

Emergency Overview:	Irritating to skin, eyes and respiratory tract. May cause harm to the unborn child and impair fertility. Danger of cumulative effects. May cause cancer.
Primary Routes of Exposure:	Inhalation (of dust or fume), ingestion
Eye Contact:	Causes slight to mild irritation of the eyes.
Skin Contact:	Causes slight to mild irritation of the skin. May cause sensitization by skin contact.
Inhalation:	Irritating to the nose, mucous membranes and respiratory tract. Large dust exposure may cause seizures, coma, and cardiorespiratory arrest.
Ingestion:	Lead: Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.
Acute Health Effects:	Lead: Dust exposure may cause seizures, coma, and cardiorespiratory arrest. Oral intake may cause abdominal pain and harm to the unborn child.
Chronic Health Effects:	The chronic effects of lead poisoning include diarrhea, loss of appetite, insomnia, weakness, muscle pain, headache, dizziness, anemia, and reproductive disorders. May cause cancer and impair fertility. Danger of cumulative effects.



NTP: No

IARC: No

OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eyes open. Get immediate medical attention.

Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Ingestion: Seek medical attention immediately. Keep victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point: not applicable

Autoignition Temperature: not applicable

Explosion Limits: not applicable

Extinguishing Medium: None. Material is non-flammable.

Special Fire Fighting Procedures: (As dust) If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus.

Hazardous Combustion and Decomposition Products: In a fire this product may form a toxic fume or dust containing small amounts of lead.

Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite or sodium carbonate and swept up.



SECTION 7: Handling and Storage

Handling and Storage: Store in a tightly sealed container. Handle fine powders in a well-ventilated area.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.

Skin Protection: Wear protective clothing and gloves.

Ventilation: Material may form or contain a fine dust that may become airborne during handling. If possible, handle the material in an efficient fume hood.

Respirator: If handling material in the form of a fine dust and ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

Additional Protection: No additional protection required

SECTION 9: Physical and Chemical Properties

Color and Form: powdr.

Molecular Weight: not applicable

Melting Point: no data

Boiling Point: no data

Vapor Pressure: not applicable

Specific Gravity: no data

Odor: none

Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: Air and moisture stable solid.

Hazardous Polymerization: no hazardous polymerization

Conditions to Avoid: If used as a catalyst, keep spent catalyst away from combustibles. They could ignite.

Incompatibility: Mineral acids



Decomposition
Products: none

SECTION 11: Toxicological Information

RTECS Data: Oral (rat); TDLo: 9100 mg/kg/26W-I. Lead: Oral (human-woman); TDLo: 450 mg/kg/6Y. Inhalation (human); TCLo: 10 ug/m3. Intraperitoneal (rat); LDLo: 1 gm/kg. Oral (pigeon); LDLo: 160 mg/kg. Oral (rat); TDLo: 1050 ug/kg/30W-I. Oral (mouse); TDLo: 6879 mg/kg/5W-C. Inhalation (guinea pig); TCLo: 20 mg/m3/6H/30D-I. Inhalation (guinea pig); TCLo: 200 ug/m3/6H/26W-I. Oral (rat); TDLo: 300 mg/kg. Oral (mouse); TDLo: 4800 mg/kg.

Carcinogenic Effects: Lead: Tumorigen

Mutagenic Effects: Lead: Mutagen

Teratogenic Effects: Lead: Reproductive effector

SECTION 12: Ecological Information

Ecological Information: Do not introduce soluble lead compounds into waterways.

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous

Hazard Class (CFR): NA

Additional Hazard
Class (CFR): NA

Packaging Group
(CFR): NA

UN ID Number (CFR): NA

Shipping Name
(IATA): Non-hazardous

Hazard Class (IATA): NA

Additional Hazard
Class (IATA): NA

Packaging Group
(IATA): NA



UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (Title 313): Title compound not listed.

Second Ingredient: Secondary cmpd: See Category Code N420 for reporting

Third Ingredient: none