



Chemical Name: Palladium, 5% on alumina powder, reduced, dry (Escat□ 1241)

Product Number: 106

CAS Registry Number: 7440-05-3

Formula: Pd on alumina

EINECS Number: 231-115-6

Chemical Family: supported metal catalyst

Synonym: Palladium on alumina catalyst

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
Alumina	1344-28-1	95	10mg/m3 (as Al ₂ O ₃)	15mg/m3 (as total Al dust)

SECTION 3: Hazards Identification

Emergency Overview: Inhalation hazard as a fine dust or fume.

Primary Routes of Exposure: Inhalation , ingestion

Eye Contact: The dust may cause slight to mild irritation of the eyes.

Skin Contact: The dust may cause slight to mild irritation of the eyes.

Inhalation: Hazard associated with inhalation of fine dust or fume. May be irritating to the nose and respiratory tract.

Ingestion: No specific information is available on the physiological effects of ingestion.

Acute Health Effects: Dust may be irritating to skin, eyes and respiratory tract.

Chronic Health Effects: No information available on health effects of prolonged or repeated exposure.

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 eye lids 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 the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.
SECTION 5: Fire Fighting Measures	
Flash Point:	no data
Autoignition Temperature:	none
Explosion Limits:	none
Extinguishing Medium:	none. Material is non-flammable
Special Fire Fighting Procedures:	No special fire fighting procedures required for this material.
Hazardous Combustion and Decomposition Products:	none
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:	Handle the material in an efficient fume hood.
Respirator:	If 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:	gray powder (d50=70 microns)
Molecular Weight:	not applicable
Melting Point:	no data
Boiling Point:	no data
Vapor Pressure:	no data
Specific Gravity:	no data
Odor:	none
Solubility in Water:	insoluble
SECTION 10: Stability and Reactivity	
Stability:	air and moisture stable
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	If used as a catalyst, keep spent catalyst away from combustibles.
Incompatibility:	none
Decomposition Products:	none
SECTION 11: Toxicological Information	
RTECS Data:	Oral (rat); TDLo: 9100mg/kg/26W-I. Alumina: Intrapleural (rat); TDLo: 90mg/kg. Implant (rat); 200mg/kg.
Carcinogenic Effects:	Alumina: no definitive data
Mutagenic Effects:	no data



Tetratogenic Effects:	no data
SECTION 12: Ecological Information	
Ecological Information:	No information available
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:	none
Third Ingredient:	none