

Material Safety Data Sheet

Palladium(II) oxide MSDS

Section 1 - Chemical Product and Company Identification

Product Name: Palladium(II) oxide

Company Identification:

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Section 2 -Product Identification

【Product Name】 Palladium(II) oxide

【Synonyms】 Palladium oxide super fine; Palladium monoxide

【CAS】 1314-08-5

【Formula】 PdO

【Molecular Weight】 122.40

【EINECS】 215-218-3

Section 3 - Physical and Chemical Properties

【Appearance】 Black or Grey powder

【Solubility in water】 Practically insoluble in water

【Melting Point】 870° C

【Density】 8.7 (g/ml , 25° C)

【Vapor Density】 No data

【Usage】 Reducing agent, catalyst, oxidant and so on.

Section 4 - First Aid Measures

【Ingestion】

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

【Skin】

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

【Eyes】

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Section 5 - Handling and Storage

【Storage】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Section 6 - Hazards Identification

【 Ingestion 】 May cause irritation of the digestive tract. The toxicological

properties of this substance have not been fully investigated.

【Inhalation】 Causes irritation of mucous membrane. Can produce delayed pulmonary edema.

【Skin】 May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

【Eyes】 May cause skin irritation. May cause chemical conjunctivitis.

Section 7 - Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

【Poison Class】 NOT AVAILABLE

Section 8 - Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Extinguishing media: Use extinguishing media most appropriate for the surrounding fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

【Fire Potential】 This material is probably combustible.

Section 9 - Accidental Release Measures

【Small spills/leaks】

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 10 - Stability and Reactivity

【Stability】

Stable under normal temperatures and pressures.

【Incompatibilities】

Oxidizing agents

【Decomposition】

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Section 11 -Transport Information

【UN Number】 1479

【Hazard Class】 No data available.

Not regulated as dangerous goods.

Wear suitable protective clothing.

Section 12 - Additional Information

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