

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet

Platinum (IV) oxide

1. Product and Company Identification		
Trade Name:	Platinum (IV) oxide	
Chemical Formula:	PtO ₂	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shannxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H272: May intensify fire; oxidizer H319: Causes serious eye irritation	
Des soutieu em Ctatementes		
Precautionary Statements:	P210: Keep away from heat P220: Keep/Store away from clothing/ combustible materials	
	P221: Take any precaution to avoid mixing with combustibles	
	P264: Wash skin thoroughly after handling	
	P280: Wear protective gloves/ eye protection/ face protection	
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for	
	1 505 1 551 1 550. If Inv Er Eb. Tembe cuulously with water for	
	several minutes. Remove contact lenses, if present and easy to do.	
	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention.	
	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-	
	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol- resistant foam for extinction.	
	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-	
HMIS Health Ratings (0-4):	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol- resistant foam for extinction. P501: Dispose of contents/container in accordance with	
HMIS Health Ratings (0-4): Health:	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol- resistant foam for extinction. P501: Dispose of contents/container in accordance with	
HMIS Health Ratings (0-4): Health: Flammability: Physical:	several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol- resistant foam for extinction. P501: Dispose of contents/container in accordance with local/regional/national/international regulations	

3. Composition		
Material Family:	Metal oxide	
Additional Names:	Platinum dioxide	
Platinum (IV) oxide (PtO ₂):		
Percentage:	100 wt%	
CAS #:	1314-15-4	
EC #:	215-223-0	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable by itself. This substance is an oxidizer – may cause ignition by reaction with reducing agents or combustibles.	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
spee. I ne i ignung i locedure.	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate	
	spill area and provide ventilation. Acts as an oxidizing agent on organic materials such as wood, paper and fats. Keep away from combustible material. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care	
	not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	

	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container.
zierage conditions.	Substance/product can reduce the ignition temperature of flammable
	substances. This substance is an oxidizer and its heat of reaction with
	reducing agents or combustibles may cause ignition. Store away from
	reducing agents, metal powders, flammable substances. Do not store
	together with organic materials. Store apart from materials and
	conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.
8. Ez	xposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	Properly operating chemical fume hood designed for hazardous
	chemicals and having an average face velocity of at least 100 feet per
	minute.
Respiratory Protection:	Use a recommended dust respirator or mask. Only use equipment
	tested and approved under appropriate government standards.
Protective Gloves:	Nitrile rubber gloves with minimum thickness of 0.11 mm
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
	sieeves/pairis.
9.	Physical and Chemical Characteristics
Color	N/A
Form:	Powder
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	450 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	10.2 g/cc
Molecular weight:	227.08 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions. May intensify a fire; oxidizer.
Reacts With:	Reducing agents, flammable substances, organic materials, metal
	powders
Incompatible Conditions:	None

11. Toxicological Information

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Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/Å
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	8,000 mg/kg for rat by mouth
Carcinogen:	 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by
	NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	N/A N/A N/A
Notes:	Avoid transfer into the environment
	13. Disposal Considerations
Dispose of in accordance with local, state	e, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
	O XID IZER 51
Hazard Class:	5.1 Oxidizing substances
Packing Group:	II
UN Number:	UN1479
Proper Shipping Name	Ovidizing solid n o s (Platinum (IV) ovide)

Proper Shipping Name:

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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