

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Rhenium Oxide

1. Product and Company Identification

Trade Name: Rhenium oxide

Chemical Formula: Re₂O₇

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H272: May intensify fire; oxidizer

H314: Causes severe skin burns and eye damage

Precautionary Statements: P221: Take any precaution to avoid mixing with combustibles

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do—

continue rinsing

P309: IF exposed or you feel unwell:

P310: Immediately call a POISON CENTER or doctor/physician

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 2

3. Composition

Chemical Family: Ceramic

Additional Names: Rhenium (VII) oxide

Rhenium oxide (Re₂O₇):

Percentage: 0-100 wt% CAS #: 1314-68-7 EC #: 215-241-9

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable, except as powder Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Use neutralizing agent. Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. 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. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A **Special Equipment:** None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

	9. Physical and Chemical Characteristics		
Color	Yellow to Black		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	360 °C 297 °C N/A		
Melting Point:			
Flash Point:			
Autoignition Temperature:	N/A		
Density:	6.103 g/cc		
Molecular weight:	484.41 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Reducing agents, flammable substances, organic materials, metal		
	powders, oxidizing agents		
Incompatible Conditions:	None		
Hazardous Decomposition Products:	Metal oxide fume		
	11. Toxicological Information		
Potential Health Effects:			
Eyes:	Causes serious eye damage		
Skin:	Causes severe skin burns		
Ingestion:	Swallowing will lead to strong corrosive effect on mouth and throat and		
	to the danger of perforation of esophagus and stomach		
Inhalation:	May cause irritation		
Chronic:	N/A		
G: 0.G			
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	N/A		
Persistent Bioaccumulation Toxicity:	N/A		
Very Persistent, Very Bioaccumulative:	N/A		
Notes:	Do not allow material to be released to the environment without proper governmental permits.		
	Do not allow undiluted product or large quantities to reach ground		
	water, water course or sewage system.		
	Avoid transfer into the environment.		

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1 Oxidizing substances Secondary Hazard Class 8 Corrosive substances

Packing Group: PG III
UN Number: UN3085

Proper Shipping Name: Oxidizing solid, corrosive, n.o.s. (Rhenium oxide)

15. Regulatory Information	
13. Regulatory information	

Sec 302 Extremely Hazardous:	N/A
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	N/A

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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