

## XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Zinc oxide Aluminum oxide

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Trade Name: Zinc oxide Aluminum oxide

Chemical Formula: ZnO/Al<sub>2</sub>O<sub>3</sub>

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: None



Hazard Statements: H401: Toxic to aquatic life

Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Reactivity: 0

## 3. Composition

Chemical Family: Ceramic Additional Names: N/A

Zinc oxide (ZnO):

Percentage: 0-99 wt% CAS #: 1314-13-2 EC #: 215-222-5

Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>):

Percentage: 0-99 wt% CAS #: 1344-28-1 EC #: 215-691-6 4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Skin:

Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion:

Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Wash affected area with mild soap and water. Remove any

contaminated clothing.

Flush eyes with water, blinking often for ten minutes. Eyes:

5. Fire and explosion hazards data

Flammability: Non-flammable

Flash Point: N/A Autoignition Temperature: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes.

6. Accidental release measures

Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled:

> 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.

Storage Conditions: Store in a cool dry place in a tightly sealed container.

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.

Provide sufficient ventilation to maintain concentration at or below Ventilation:

TLV.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits: 5 mg/m<sup>3</sup> as ZnO respirable fraction (USA)

Threshold Limit Value: 1 mg/m<sup>3</sup> as Al, long-term respirable fraction (USA)

**Special Equipment:** None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eve Protection: Safety glasses / goggles

**Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9	. Physical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
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Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, halogenated products
Incompatible Conditions:	None
Haz. Decomposition Products:	Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Low toxicity
Inhalation:	May cause irritation
Details:	Zinc compounds have variable low toxicity. Zinc is not inherently a
	toxic element. However, when heated it evolves a fume of zinc oxide
	which, when inhaled fresh can cause a disease known as "brass
	founders" "ague", or brass chills". Zinc dust which is not freshly
	formed is virtually innocuous. There is no cumulative effect from the
	inhalation of zinc fumes.
Routes of Entry:	None
Target Organs:	N/A
Signs & Symptoms of Exposure:	N/A
Medical Conditions	10/1
Aggravated by Exposure:	N/A
Median Lethal Dose:	N/A
Carcinogen:	Inadequate information
	12. Ecological Information
Ecological effects:	Danger to drinking water, even in small doses.
	Poisonous to fish and aquatic life.
	13. Disposal Considerations
Dispose of in accordance with local, sta	ate and federal regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation as powder



Hazard Class: 9. Miscellaneous hazardous materials

Packing Group:

UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s

(Zinc oxide Aluminum oxide)

## 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.

Document Last Revised: 04/22/2020