

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Aluminum Silicon Oxide

1. Product and Company Identification

Trade Name: Aluminum Silicon Oxide

Chemical Formula: $Al_2O_3 - SiO_2$

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: H350: May cause cancer.

H373: May cause damage to the lung, the spleen, the blood, and the endocrine system through prolonged or repeated exposure. Route of exposure: Inhalation

Precautionary Statements: P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

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

protection.

P314: Get medical advice/ attention if you feel unwell.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition	
Chemical Family:	Nonmetal
Additional Names:	Zeolite
Aluminum oxide (Al ₂ O ₃):	
Percentage:	0-100 wt%
CAS #:	1344-28-1
EC #:	215-691-6
Silicon oxide (SiO ₂):	
Percentage:	0-100 wt%
CAS #:	7631-86-9
EC #:	231-545-4
	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
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
	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 adequate 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:	Avoid contact with skin and eyes. Wash thoroughly afterhandling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	acids, strong bases, oxidizing agents, halogens, halocarbons. Store apart
Work/Hygienic Maintenance:	from materials and conditions listed in section 10.
	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. Exposure Controls and Personal Protection

Permissible Exposure Limits: 5 mg/m³ as Al₂O₃, long-term value

Threshold Limit Value: 0.025 mg/m³ as SiO₂, long-term value as respirable fraction

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: Dust Respirator

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.

9. Physical and Chemical Characteristics

Color Colorless, white

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, acids, bases, halogens, halocarbons, Chlorine

trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Oxygen, Nitrates

Incompatible Conditions: Water/moisture, air

Hazardous Decomposition Products: Metal oxide fume, silicon oxide, aluminum oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: May cause damage to the lung, the spleen, the blood and the endocrine

system. Route of exposure: Inhalation

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 3,160 mg/kg for rat by mouth

Carcinogen: May cause cancer

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity

ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

NTP-K: Known to be carcinogenic: sufficient evidence from human studies.

	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative: Notes:	N/A Do not allow meterial to be released to the environment without property.
	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	e, national, and international regulations.
	14. Transportation Data
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Hazardous:	Not hazardous for transportation.
Hazard Class:	
Hazard Class: Packing Group:	Not hazardous for transportation. N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A N/A
Hazard Class: Packing Group:	Not hazardous for transportation. N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A N/A
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	Not hazardous for transportation. N/A N/A N/A N/A N/A N/A N/A N/O
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	Not hazardous for transportation. N/A N/A N/A N/A N/A 15. Regulatory Information No N/A
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	Not hazardous for transportation. N/A N/A N/A N/A N/A N/A N/A N/O

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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