

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Aluminum Oxide-Carbon

1. Product and Company Identification		
Trade Name: Chemical Formula:	Aluminum Oxide-Carbon Al ₂ O ₃ -C	
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:	Warning	
Hazard Statements:	H228: Flammable solid H319: Causes serious eye irritation	
	H335: May cause respiratory irritation	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No	
	smoking	
	P240: Ground/bond container and receiving equipment	
	P241: Use explosion-proof electrical/ventilating/light/equipment	
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray	
	P264: Wash face, hands and any exposed skin thoroughly after	
	handling	
	P271: Use only outdoors or in a well-ventilated area	
	P280: Wear protective gloves/protective clothing/eye protection/face protection	
HMIS Health Ratings (0-4):		
Health:	2	
Flammability:	1	
Physical:	0	

3. Composition		
Material Family:	Ceramic	
Additional Names:	Alumina-Carbon	
Aluminum Oxide (Al ₂ O ₃):		
Percentage:	0-100 wt%	
CAS #:	1344-28-1	
EC #:	215-691-6	
Carbon (C):		
Percentage:	0-100 wt%	
CAS #:	7782-42-5	
EC #:	231-955-3	
	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.	
	Seek immediate medical attention.	
Ingestion:	Give one to two glasses of water. Never induce vomiting or give	
	anything by mouth to an unconscious person. Seek immediate medica attention.	
Skin:	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.	
1	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder.	
Extinguishing Media:	Use carbon dioxide, dry chemical, water spray and alcohol-resistant	
	foam.	
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. 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. Store apart from
	materials and conditions listed in section 10. Strongly hygroscopic,
	keep in dry place. May form combustible dust concentrations in air.
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
X7	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
	osure Controls and Personal Protection
Permissible Exposure Limits:	15 mg/m ³ as Al, long-term value
*	15 mg/m ³ as C, long term value
Threshold Limit Value:	1 mg/m ³ as Al, long-term value
	2 mg/m ³ as C, long-term value
Special Equipment:	None
Respiratory Protection:	Use a recommended dust respirator or mask. Only use equipment tested
	and approved under appropriate government standards.
Protective Gloves:	Rubber Gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9. Ph	sysical and Chemical Characteristics
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	N/A
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
	37/4
Autoignition Temperature:	N/A
Density:	N/A
Density:	N/A
Density: Molecular weight: 	N/A N/A 10. Reactivity Stable under recommended storage conditions
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Density: Molecular weight: 	N/A N/A 10. Reactivity Stable under recommended storage conditions Oxidizing agents, strong acids, strong bases, chlorine trifluoride ethylene oxide, halogenated hydrocarbon, oxygen difluoride,

Potential Health Effects:	
Eyes:	Causes serious irritation
Skin:	May cause irritation
Ingestion: Inhalation:	May cause irritation May cause respiratory irritation
Chronic:	N/A
chronic.	
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	>10,000 mg/kg for rat by mouth as Al ₂ O ₃
	>2,000 mg/kg for rat by mouth as C
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. 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:	N/A
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative. Notes:	No N/A
Notes.	
CU'	13. Disposal Considerations
Dispose of in accordance with local, state, n	ational, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only
	FLAMMABLE SOLID
Hazard Class:	4.1 Flammable Solids
Packing Group: UN Number:	III UN3178
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Aluminum Oxide-Carbon)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A 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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