



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):  
97-222-29

Product Name: FUSED ALUMINUM OXIDE

Release Date: February 22, 2007

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Fused Aluminum oxide	<b>MSDS Code Number</b> Refer to part number
<b>Chemical Name</b> Refractory oxide Synonyms: Alpha Alumina Formula: AL <sub>2</sub> O <sub>3</sub>	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> 1344-28-1	<b>Address</b> 355 Knickerbocker Ave. Bohemia, NY USA 11716
<b>Grades or Minor Variant Identities</b> NA	<b>Information Telephone Number</b> 1-631-419-1700
<b>Product Use (for Canada)</b> NA	<b>Emergency Telephone Number</b> 1-631-419-1700

## 2. Composition of Ingredients

Hazardous Components	LIMITS FOR AIR TWA MG/M3	CONTAMINANTS PEL MG/M3	C.A.S. Number	Exposure Limits	%
Alpha Alumina (AL <sub>2</sub> O <sub>3</sub> )			1344-28-1	NA	99
Total dust	10(e)	15	NA	NA	NA
Respirable fracation	5	5	NA	NA	NA

## 3. Hazard Identification

<b>Emergency Overview</b> NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	May cause irritation.	NA	NA	NA	NA
Skin	No evidence of adverse effects expected.	NA	NA	NA	NA
Inhalation	Choking sensation, respiratory system passageways irritation.	NA	NA	NA	NA
Ingestion	Non-toxic. May cause irritation of throat and digestive passageways.	NA	NA	NA	NA
Other		NA	NA	NA	NA
<b>Medical Conditions Aggravated by Exposure</b> Possible effects of overexposure: Individuals with lung disorders should not be exposed to conditions where large airborne quantities of nuisance dust exist without precautions taken to alleviate the aggravated preexisting medical condition.					
<b>Carcinogenicity (IARC, NTP)</b> No evidence of carcinogenicity.					
<b>Potential Environmental Effects</b> NA					

## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	NA	NA	NA
Skin	NA	NA	NA
Inhalation	NA	NA	NA
Ingestion	NA	NA	NA
Other	NA	NA	NA
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b> NA			



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## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> °C / °F NA	<b>Flammable (Explosive) Limits in Air</b> LEL: NA UEL: NA	<b>Autoignition Temperature</b> NA	<b>Other</b> Not an explosion hazard. Source of exposure limit data: ACGIH: Threshold limit values. OSHA Tables: Z-1-A, Z-2, Z-3
<b>Flame Propagation or Burning</b> Non flammable. Does not support combustion.	<b>Properties Contributing to Fire Intensity</b> NA	<b>Flammability Classification</b> Health- , Flammability- , Reactivity- NA	
<b>Extinguishing Media</b> NA		<b>Extinguishing Media to Avoid</b> NA	
<b>Protection and Procedures for Firefighters</b> NA			
<b>Unusual Fire and Explosion Hazards</b> NA			

## 6. Accidental Release Measures

<b>Containment Techniques</b> NA
<b>Spill/Leak Clean-Up Procedures and Equipment</b> Spill leak and disposal. Avoid dust during clean-up.
<b>Evacuation Procedures</b> NA
<b>Special Instructions</b> NA
<b>Reporting Requirements</b> NA

## 7. Handling and Storage

<b>Handling Practices and Warnings</b> Stable under normal conditions of use, transportation and storage.
<b>Storage Practices and Warnings</b> (°C / °F). NA

## 8. Exposure Control/Personal Protection

<b>Ventilation</b> NA	<b>Other Engineering Controls</b> NA	
<b>Routes of Entry:</b>	<b>Personal Protective Equipment (PPE) for Normal Use:</b>	<b>PPE for Emergencies:</b>
<b>Eye/Face</b>	NA	NA
<b>Skin</b>	NA	NA
<b>Inhalation</b>	NA	NA
<b>General Hygiene Considerations and Work Practices</b> NA		
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment</b> NA		
<b>Other Protective Measures and Equipment</b> Use adequate ventilation to meet exposure limits. When exposure is excessive, NIOSH approved respiratory protection should be used.		



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## 9. Physical and Chemical Characteristics

<b>Appearance</b> Light brown or white		<b>Odor</b> None, odorless.
<b>Normal Physical State:</b> <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input type="checkbox"/> NA(Other)		<b>Boiling Point</b> °C / °F    NA <b>Melting Point</b> 2038 °C / 3700 °F <b>Freezing Point</b> °C / °F    NA
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> 3.97 gm/cc	<b>Solubility in Water</b> Insoluble in water and organic solvents.	<b>pH</b> 7-8
<b>Vapor Pressure (mm Hg @ 20°C)</b> NA	<b>Vapor Density (AIR= 1)</b> NA	<b>Evaporation Rate (Butyl Acetate = 1)</b> NA
<b>Other</b> Hardness: 9/Mohs scale; 2100 Knoop scale.		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> NA		
<b>Hazardous Products Produced During Decomposition</b> NA    Reactivity: None with water, air, heat or strong oxidizers.		
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input type="checkbox"/> May Not Occur    NA	<b>Conditions to Avoid</b> °C / °F    NA	
<b>Stability?</b> <input type="checkbox"/> Stable <input type="checkbox"/> Unstable    NA	<b>Conditions to Avoid</b> °C / °F    NA	

## 11. Toxicological Information

<b>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data</b> NA
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## 12. Ecological Information

<b>Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements</b> Waste may be considered as inert material.
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## 13. Disposal Considerations

<b>Regulations</b> NA
<b>Properties (Physical/Chemical) Affecting Disposal</b> NA

## 14. Transport Information

<b>Regulated for shipping?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Proper Shipping Name</b> Fused Aluminum Oxide	<b>Packing Group</b> NA
<b>Do changes in quantity, packaging, or shipment method change product classification?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Hazard Class</b> NA	<b>Identification Number</b> NA
<b>Other</b> NA		



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## 15. Regulatory Information

**Federal Regulations**

NA

**International Regulations**

NA

**Other**

NA

## 16. Other Information

**Supplier Number:**122 /97

**Supplier Release:** September 15, 1993

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.