Materials Safety Data Sheet

Aluminum Oxide

SECTION I - General Information

	Groman Inc.
Manufacturer's Name:	4900 NW 15th Street, Suite 4494
	Margate, FL 33063
Telephone:	(954) 649-8008
Company Contact:	Compliance Manager
Date (Revised):	October 12, 2004
Product/Trade Name:	Fused Aluminum Oxide
Synonyms:	Alpha Alumina
Chemical Family:	Refractory Oxide
Formula:	Al2O3

SECTION II - Hazardous Components

Non

SECTION III - Physical Data

Melting Temperature:	3700 Degrees F (2038 degrees C)
Specific Gravity:	3.97 gm/cc
Hardness:	9 Mohs scale; 2100 Knoop Scale
Water Solubility:	Insoluble in water and organic solvents
pH:	7-8
Color:	Light brown or white
Odor:	None, odorless

SECTION IV - Fire & Explosion Data

Non-flammable; does not support combustion. Not an explosion hazard.

SECTION V – Health Data

			Limits for air contaminants	
Chemical Name	C.A.S. NO	Percent	TWA Mg/M3	PEL Mg/M3
Alpha Alumina (Al2O3)	1344-28-1	99+%		
Total Dust			10(e)	15
Respirable Fraction			5	5

Source of Exposure Limit Data

ACGIH Threshold Limit Values; OSHA Tables: Z-1-A, Z-2, Z-3

Possible effects of Overexposure: Individuals with lung disorders should not be exposed to conditions where large airborne quantities of the nuisance dust exist without precautions taken to alleviate the aggravated preexisting medical condition.

Inhalation:	Choking sensation, respiratory system passageways irritation.
Skin Contact:	No evidence of adverse effects expected.
Eye Contact:	May cause Irritation.
Swallowing:	Non-toxic. May cause irritation of the throat and digestive passageways.
Carcinogen:	No evidence of carcinogenicity.

SECTION VI - Reactivity Data

None with water, air, heat, or strong oxidizers.

SECTION VII – Environmental

Waste may be considered as inert material.

SECTION VIII - Handling, Storage, Transportation

Stable under normal conditions of use, transportation, and storage.

Spill, leak and disposal: Avoid dust during cleanup.

SECTION IX – Special Precautions

Use with adequate ventilation to meet exposure limits. When exposure is excessive, NIOSH approved respiratory protection should be used.

Materials Safety Data Sheet

Sodium Bicarbonato

SECTION I – General Information

	Groman Inc.
Manufacturer's Name:	4900 NW 15 th Street, Suite 4494
	Margate, FL 33063
Telephone:	(954) 649-8008
Company Contact:	Compliance Manager
Date (Revised):	August 10, 2006
Product/Trade Name:	Sodium Bicarbonate
Synonyms:	Baking Soda
Chemical Family:	Alkali
Formula:	NaHCO ₃

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SECTION II - Hazardous Components

None

SECTION III - Physical Data

Melting Temperature:	N/A
Specific Gravity:	60 Lb/ft ³ @ 72 °F
Hardness:	N/A
Water Solubility:	16g/100ml @ 60 °C
pH:	7-8
Color:	White powder
Odor:	None, odorless

SECTION IV - Fire & Explosion Data

Non-flammable; does not support combustion. Not an explosion hazard.

SECTION V - Health Data

Inhalation (acute):	Choking sensation, respiratory system passageways irritation- May cause coughing, shortness of breath. Provide fresh air, apply artificial respiration as needed. Obtain first aid or medical assistance, if needed.
Skin Contact:	Not absorbed through skin. No evidence of adverse effects expected.
Eye Contact:	May cause Irritation - Wash with large amounts of water, obtain first aid or medical assistance, if needed.
Swallowing:	Gross ingestion (1/2lb+) may cause Alkalosis; However, as a natural material in the body its is well tolerated. Other potential health risks not known.
Carcinogen:	No evidence of carcinogenicity.

Source of Exposure Limit Data

ACGIH Threshold Limit Values - N/A

Possible effects of Overexposure: Individuals with lung disorders should not be exposed to conditions where large airborne quantities of the nuisance dust exist without precautions taken to alleviate the aggravated preexisting medical condition.

SECTION VI - Reactivity Data

Avoid contact with Strong Acids.

SECTION VII - Environmental

Waste may be considered as inert material.

SECTION VIII – Handling, Storage, Transportation

Stable under normal conditions of use, transportation, and storage.

Spill, leak and disposal: Avoid dust during cleanup.

SECTION IX - Special Precautions

Use with adequate ventilation to meet exposure limits. When exposure is excessive, NIOSH approved respiratory protection should be used. See OSHA 29CFR1910.24 and 29CFR1910.1000