

# MATERIAL SAFETY DATA SHEET

Rev. JAN. 2012

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## 1. PRODUCT AND COMPANY IDENTIFICATION

Material Name: **ALUMINUM OXIDE ABRASIVE GRIT**

Chemical Family: Refractory Oxide      Chemical Name: Fused Aluminum Oxide

**Composition Materials Co., Inc. – 249 Pepes Farm Road - Milford, CT 06460**  
**Phone - 203-874-6500      Fax - 203-874-6505**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

	<u>CAS #</u>	<u>TYPICAL %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	96.16	10 mg/m <sup>3</sup> *	10 mg/m <sup>3</sup>
Titanium Oxide (TiO <sub>2</sub> )	13463-67-7	2.58	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Silicon Dioxide (SiO <sub>2</sub> )	7631-86-9	0.29	See below	See below
Magnesium Oxide (MgO)	1309-48-4	0.30	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	0.20	10 mg/m <sup>3</sup>	5mg(Fe)/m <sup>3</sup>
Calcium Oxide (CaO)	1305-78-8	0.14	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

PEL & TLV for SiO<sub>2</sub> = (10 mg/m<sup>3</sup>) / (% Respirable SiO<sub>2</sub>+2)

\*Respirable fraction 5 mg/m<sup>3</sup>

Listed as Carcinogen: None of the above

## 3. HAZARDS IDENTIFICATION

**Material is light to dark brown granular with no odor. Exposure to excessive airborne concentrations may result in acute respiratory disorders. Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations. Avoid creating airborne dust. Spilled material can be slippery and cause falls if walked on.**

### **Potential Health Effects**

**EYE:** Solid or dusts may cause irritation or scratch the surface of the eye.

**SKIN:** Not absorbed through skin; may cause abrasions.

**INGESTION:** No known adverse effects, but ingestion not recommended.

**INHALATION:** Acute - May cause coughing, shortness of breath.

Chronic - May affect breathing capacity.

**Carcinogenicity:** NTP: No

IARC: No

OSHA: No

**HMIS**

Health 1

Flammability 0

Reactivity 0

P.P.E. E

**4. FIRST AID MEASURES**

**EYES:** Flush with large amounts of water. Obtain first aid or medical assistance if needed.

**SKIN:** Obtain first aid or medical assistance if needed.

**INGESTION:** Obtain medical assistance if needed.

**INHALATION:** Remove to fresh air, apply artificial respiration as needed. Obtain first aid or medical assistance.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:**

FLASH POINT: Nonflammable

**FLAMMABLE LIMITS:** N/A      **LEL:** N/A      **UEL:** N/A

**HAZARDOUS COMBUSTION PRODUCTS:** N/A

**EXTINGUISHING MEDIA:** N/A

**FIRE FIGHTING INSTRUCTIONS:** N/A

**6. ACCIDENTAL RELEASE MEASURES**

Sweep up and place in appropriate disposal container. Normal precautions for inert or nuisance dusts and particulates. Spilled material can be a slipping hazard.

## **7. HANDLING AND STORAGE**

**HANDLING:** Maintain normal housekeeping procedures for nuisance dust.

**STORAGE:** Store in closed, properly labeled containers.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Utilize local exhaust to keep airborne concentration below TLV.

**RESPIRATORY PROTECTION:** Use NIOSH approved respiratory protection devices for nuisance dust.

**SKIN PROTECTION:** Protective gloves may be used to prevent dermatitis. Arm sleeves or barrier creams may also be useful.

**EYE PROTECTION:** Use NIOSH approved eye protection devices.

**OTHER PROTECTIVE EQUIPMENT:** None necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING POINT:** N/A

**MELTING POINT:** 2050° C

**VAPOR PRESSURE:** Essentially 0

**VAPOR DENSITY:** N/A

**SOLUBILITY IN WATER:** Insoluble

**EVAPORATION RATE:** N/A

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 3.95

**pH:** N/A

**ODOR:** No Odor

**APPEARANCE:** Granular, light to dark brown.

## **10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY(CONDITIONS TO AVOID):** N/A

**INCOMPATIBILITY:** Hot chlorinated rubber.

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

**HAZARDOUS POLYMERIZATION:** Will not Occur.

**STABILITY:** Stable

## **11. TOXICOLOGICAL INFORMATION**

N/A

## **12. ECOLOGICAL INFORMATION**

Cleaned up material is not known to pose any significant ecological problems. Always comply with Federal, State and Local environmental regulations.

## **13. DISPOSAL CONSIDERATIONS**

Dispose as solid waste in sanitary landfill according to Federal, State and Local regulations.

## **14. TRANSPORT INFORMATION**

**DOT:** Not Regulated.      **NMF CLASSIFICATION:** Class 55 - Item 13240

## **15. REGULATORY INFORMATION**

Review OSHA Std. for PPE in 29CFR 1910 Subpart I to ensure proper use for any applicable PPE.

## **16. OTHER INFORMATION**

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