

MATERIAL SAFETY DATA SHEET

BROWN FUSED ALUMINUM OXIDE

Section 1: Name and Product

Supplier: American Abrasive Products, Inc.			
Address: 17635-D East Rowland Street, City of Industry, California 91748			
Trade Name, Common Name or Specification: N/M			
Chemical Family or Product Type: Brown Fused Aluminum Oxide			
Flammability Rating <input checked="" type="checkbox"/>	Health Rating <input checked="" type="checkbox"/>	Reactivity Rating <input checked="" type="checkbox"/>	Hazard Rating <input type="checkbox"/>
Please rate consistent with NFPA code			
Emergency Telephone No: (626) 912-8866			
Contact: American Abrasive Product, Inc.			
Last Update: January, 2002			

Section 2: Composition

Chemical Name	%	Common Name	OSHA* REG. (Y/N)	CAS#	OSHA Permissive Exposure Limit (per cubic meter)	TLV (per cubic meter)	OSHA Carcinogen (Y/N)
	%	Common Name					
Aluminum Oxide (Al ₂ O ₃) [⊖]	≥95	Aluminum Oxide	Y	1344-28-1	10 mg/m ³	10 mg/m ³	N
Titanium Dioxide (TiO ₂)	2-4	Titanium Dioxide	Y	13463-67-7	10 mg/m ³	10 mg/m ³	N
Iron Oxide (Fe ₂ O ₃)	0.1-1	Iron Oxide	Y	1309-37-1	10 mg/m ³	5 mg/m ³	N
Silicon Dioxide (SiO ₂)**	0.2-1	Silicon Dioxide	Y	7631-86-9	6 mg/m ³	NA	N
Magnesium Oxide (MgO)	0.2	Magnesium Oxide	Y	1309-48-4	15 mg/m ³	10 mg/m ³	N
Calcium Oxide (CaO)	0.1	Calcium Oxide	Y	1305-78-8	5 mg/m ³	2 mg/m ³	N

PEL & TLV for SiO₂ = (10 mg/m³) / (% Respirable SiO₂ + 2); Respirable Fraction: 5 mg/m³

* Materials are regulated by OSHA 29 CFR 1910, 1200 Hazard Communication Standard.

** SiO₂ value shown is chemically combined, not free silica. It is in the form of a glassy slag within the grains of fused alumina.

⊖ Non-Ferrous form of Aluminum Oxide

Listed as Carcinogen by:

1. American Conference of Government Industrial Hygienists (ACGIH)
2. International Agency for Research on Cancer Monographs (IARC)
3. Nation Toxicology Program (NTP)
4. California Proposition 65 List (1988)

Section 3: Physical and Chemical Data

Boiling Point (°C) : NA	Melting Point (°C) : dissociates at 2050	Specific Gravity (H ₂ O) = 1): 3.95
Vapor Pressure (mmHg): Essentially 0	Percent Volatile by Volume (%): NA	Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acetate=1): NA	Solubility in Water: Insoluble	Solubility in Alcohol: Insoluble
Solubility in Other Solvent: NA	Appearance and Odor: Light to Dark Brown, Odorless	

Section 4: Fire and Explosion Data

Flash Point (Method Used) : NA	Flammable Limits		
Extinguishing Media: Not flammable	UEL:	NA	LEL: NA
Special fire fighting Procedures: None required			
Unusual Fire and Explosion Hazard Potention: None			

Section 5: Health, First Aid and Medical Data

Primary Routes of Entry	Acute and Chronic health Effects and Effects Overexposure (Threshold Limit Value & Carcinogenicity See Section 2)	First Aid and Medical Information
Inhalation (Dust)	Product will act as a nuisance dust. Inhalation of high Concentrations of dust may cause coughing and mild, Transitory respiratory irritation.	Remove to fresh air apply. Check for clear airway, breathing, and presence of pulse. Provide cardiopulmonary resuscitation for persons without pulse or respiration. Obtain first aid or medical assistance if needed.
Ingestion	Relatively Non-toxic. Ingestion is not anticipated under normal working conditions, but ingestion not recommended.	
Skin	Not absorbed through skin. May cause minor irritation.	Wash with large amounts of water, obtain first aid or medical assistance, if needed.
Eye (Dust)	Particulate matter may scratch the cornea or cause other Mechanical injury to the eye.	
Health hazards (Acute and Chronic)	Acute: May cause coughing shortness of breath Chronic: May affect breathing capacity.	Remove to fresh air apply. Check for clear airway, breathing, and presence of pulse. Provide cardiopulmonary resuscitation for persons without pulse or respiration.
Signs and Symptoms Of Exposure	Scratching or physical damage to the eyes can cause irritation, redness, pain, tear formation, blurred vision, and light sensitivity.	
Medical Conditions Aggravated by Exposure	Repeated inhalation of dusts over time may aggravate Pre-existing respiratory disease.	Obtain first aid or medical assistance if needed.
Other Potential Health Risks	None known	

Section 6: Corrosively and Reactivity Data

Stability: Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/> Polymerization May Occur <input type="checkbox"/> Will Not Occur <input type="checkbox"/>
Incompatibility (Materials to Avoid): Incompatible with hot chlorinated rubber.
Dangerous Products of Decompression: No dangerous decompression products known.
Dangerous Reactions: No dangerous reactions known.
Thermal Decomposition / Conditions to Avoid: No decompression if used according to specification.
Additional Information: Non-corrosive.

Section 7: Storage, Handling and Use Procedures

Storage:	Keep material dry. Normal storage, no special requirements.
Handling:	Handle with adequate ventilation for nuisance dust, See OSHA 29 CFR 1910.94 (Ventilation) and CFR 1910.1000, (Air Contaminants). Avoid breathing dust. Wash hands thoroughly after handling.
Steps to be taken in Case of Leaks or Spills:	Normal precautions for inert or nuisance dusts and particulate. Vacuum-clean to pick up dust, avoid dust inhalation and promulgation. Do not use compressed air or dry sweeping to remove dust from work area. If sweeping is required, only wet-clean-up methods should be used.
Waste Disposal Method:	Before use, Brown Aluminum oxide is not classified as a special waste. During use however, the product can become contaminated with paints or other materials that would require classification of the waste as a special waste. It is the responsibility of the user to under take any necessary evaluation, classification and disposal of the material after use. Recommendation: Collect in containers, bags or covered dumpster boxes. Disposal must be in accordance with Federal, State and Local Laws and regulations (40 CFR 261 or State equivalent in the U.S.).
Other Precautions:	NA

Section 8: Personal Protection Information

Respiratory Protection (Specify Type):	
As needed, approved dust respirator. See OSHA 29 CFR 1910. 134	
Ventilation	Local Exhaust: Recommended. Use sufficient ventilation to keep employee exposure below recommended limits. If using this product as an abrasive blast agent in confined areas, airborne dust levels should be controlled by physical enclosure of the abrasive blasting operation. The enclosure should be exhaust ventilated in accordance with 29 CFR 1910.94 Ventilation (a) Abrasive blasting.
	Mechanical (General): Recommended
	Other: NA
Hand Protection: Impervious gloves.	
Eye/Face Protection: Recommended, see OSHA 29 CFR 1910. 122. Do not wear contact lenses while working with this substance.	
Other Equipment: NA	
Measures to be taken during repair and maintenance of equipment that has been in contact with this material. See Section 7 and 8.	

Section 9: Special Precautions / Regulatory Information

<p>CANADIAN WHMIS: D2B</p> <p>OSHA HAZARD COMMUNICATOIN RULE, 29 CFE 1910.1200: This product is hazadous under the criteria of this rule.</p> <p>EPCRA Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302, Table 302.4</p> <p>SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promugated under Section 311 and 312 of the superfund Amendment and Reauthorization Act of 1988 (SARA Title III) and by definition meets the requirements of the following category: Acute Health Hazard.</p> <p>SARA 313 REPORTING REQUIREMENTS: This product does not contain ingredients subject to the reporting requirements of Section 313 SARA, and Section 8807 of the Pollution Prevention Act..</p> <p>TSCA: The chemical components of this product are registered under the Toxic Substances Control Act (Title 40 CFR Part 710).</p>

Note:

1. The information and recommendation set forth are taken from sources believed to be accurate. Any modifications of product use or method of applicatoin is the responsibility of the user. However, American Abrasive Products, Inc. makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to anyt thereof. Customers are encourages to conduct their own test.
2. This MSDS contains important environmental safety and health information for your employees who will be using this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

NA = Not Applicable

NF = Not Found