



MATERIAL SAFETY DATA SHEET

1.0 Chemical Product and Company Identification

Product Name: BROWN ND AGGREGATE™

Chemical Name: Brown Aluminum Oxide

Company Name: NEW DIMENSIONS SOLUTIONS, LLC
3960 Howard Hughes Parkway, Suite 500
Las Vegas, NV 89169
(800) 731-2231 Fax (800) 731-2231

Emergency/Technical: (800) 731-2231

2.0 Composition/Information on Ingredients

Component	CAS No.	OSHA PEL Exposure Guidelines		Percent By Weight
		Total (TWA)	Respirable (TWA)	
Aluminum Oxide ¹	1344-28-1	15 mg/m ³	5 mg/m ³	92.0 - 99.0
Titanium Dioxide	13463-67-7	15 mg/m ³	5 mg/m ³	1.0 - 4.0
Silicon Dioxide ²	7631-86-9	80 mg/m ³	5 mg/m ³	0.2 - 1.7
Iron Oxide	1309-37-1	10 mg/m ³	5 mg/m ³	0.1 - 1.5
Impurities – Other total oxides (trace amounts)				<1.0

¹ Non-Fibrous form of Aluminum Oxide

² Amorphous

3.0 Hazard Identification/ Potential Health Effects

Emergency Overview: Dust irritating to eyes and respiratory tract.

Eye: Mechanical eye irritant. May cause tearing and redness.

Skin: Mechanical skin irritant. Prolonged contact may cause skin abrasion, redness, itching.

Sensitization: No data available.

Ingestion: May cause nausea and vomiting. No long-term health effects are anticipated.

Inhalation: Dust may be slightly irritating to respiratory tract. May cause coughing or shortness of breath.

Target Organs: Eyes, skin, respiratory system.

Acute effects of Exposure: Exposure may include persistent cough, shortness of breath.

Chronic Effects of Exposure: N/A

Signs & Symptoms of Exposure: Coughing, shortness of breath.

4.0 First Aid Measures

Eyes: Wash with large amounts of water. If signs/symptoms persist, seek medical attention.
Skin: Wash with soap and water. If signs/symptoms persist, seek medical attention.
Ingestion: Ingestion is an unlikely route of exposure. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.
Inhalation: Remove to fresh air. If signs/symptoms persist, seek medical attention.

5.0 Fire Fighting Measure

Flammable/Combustible Properties: None
Flash Point: None **Fire/Explosion Potential:** None
Upper and Lower Flammable Limits: None
Autoignition Temperature: None
Fire & Explosion Hazards: Not applicable. None inherent in this product.
Special Fire Fighting Procedures: In fire conditions, fire-fighter should wear appropriate respiratory protection and full protective gear.

6.0 Accidental Release Measures

Personal Safety Precautions: Avoid creating dust. Avoid contact with skin and eyes. Use with adequate ventilation.
Environmental Precautions: Ensure material is properly disposed of.
Cleanup Measures: Collect spilled material mechanically and place in a suitable, compatible, properly labeled container. Avoid generating dust. Ensure adequate ventilation and dispose of material in accordance with all applicable Federal, State and Local laws.

7.0 Handling and Storage

Normal Storage: General storage, ambient air temperature and pressure.
Handling: Avoid contact with skin and eyes. Wash hands before eating. Prevent formation of dust. Handle with adequate ventilation for dust.

8.0 Exposure Controls, Personal Protection

Engineering Control: Provide sufficient mechanical (general and/or local exhaust) ventilation to reduce airborne concentrations and minimize exposures. Maintain employee exposure below applicable permissible exposure limits.
Hygienic Measures: Do not inhale dust/smoke/mist. Avoid contact with skin and eyes. Wash hands before eating.
Respiratory Protection: Avoid breathing dust. Assess exposure concentrations of all materials involved in the workplace. If concentrations exceed the exposure listed in Section 2, Exposure Guidelines, or irritation or other symptoms are experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149 approved respirator.
Skin and Hand Protection: Avoid skin contact. Wear appropriate protective clothing to minimize risk of injury to skin from contact with dust or physical abrasion.
Eye and Face Protection: Avoid eye contact. To minimize the risk of injury to eyes, always wear appropriate protective safety glasses or chemical safety goggles.

9.0 Physical and Chemical Properties

Appearance: Brown to black	Physical State: Solid-granular	
Odor: Odorless	pH: N/A	Melting Point: N/A
Flash Point: N/A	Explosive Properties: None	
Oxidizing Properties: N/A	Vapor Pressure: N/A	
Vapor Density: N/A	Specific Gravity: 3.95	
Solubility: Insoluble	Boiling Point: N/A	

10.0 Stability and Reactivity

Chemical Stability: Stable **Incompatibility:** N/A
Polymerization: Will not occur **Conditions to Avoid:** None known

11.0 Toxicological Information

Data not Available.

12.0 Ecological Information

Data not Available.

13.0 Disposal Considerations

Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. A.S. EPA guidelines for the classification are listed in 40 CFR Parts 261.3. Additionally, waste generators, must consult state and local waste regulations to ensure complete and accurate classification.

14.0 Transportation Information

US DOT: This product is not regulated by US DOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.

IMDG: Not regulated as a Hazardous Material.

ACA0/IATA: Not regulated as a Hazardous Material.

EU (ADR,RID): Not regulated as a Hazardous Material.

15.0 Regulatory Information

TSCA – Aluminum Oxide is listed on the TSCA inventory under CAS#1344-28-1.

RCRA - Aluminum Oxide is not classified as a hazardous material under RCRA or its regulations, 40 CFR 261.

CERCLA - Aluminum Oxide is not classified as a hazardous material under CERCLA regulations, 40 CFR 302.

SARA - Aluminum Oxide is not an extremely hazardous substance in Section 302 and is not a toxic chemical subject to the requirements of 313.

Prepared By: MSDS COMMITTEE,

Date: September 15, 2008

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