

# MATERIAL SAFETY DATA SHEET

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	Sodium beta alumina
<b>Product Code</b>	
<b>Synonym</b>	
<b>Product Use</b>	
<b>Manufacturer</b>	Materials & Systems Research, Inc. 5395 W 700 S, Salt Lake City, UT 84104, USA
<b>Contact Information</b>	Tel. 1-800-530-4987 / Fax. 1-800-530-4820
<b>Date MSDS Prepared</b>	11/14/2013

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Component</b>	<b>% by weight</b>	<b>CAS #</b>
Sodium beta alumina	100	

## SECTION 3. HAZARDS IDENTIFICATION

<b>Route of Entry</b>	<input type="checkbox"/> Skin Contact. <input type="checkbox"/> Skin Absorption. <input type="checkbox"/> Eye Contact. <input type="checkbox"/> Inhalation. <input type="checkbox"/> Ingestion
<b>Potential Health Effects</b>	N/A

## SECTION 4. FIRST AID MEASURES

<b>Skin Contact</b>	Wash with soap and water
<b>Eye Contact</b>	N/A
<b>Inhalation</b>	N/A
<b>Ingestion</b>	N/A

## SECTION 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	N/A	
<b>Means of Extinction</b>	N/A	
<b>Flashpoint (°C)</b>	N/A	
<b>Flammable Limit (% vol.)</b>	Lower: N/A	Upper: N/A
<b>Autoignition Temperature (°C)</b>	N/A	
<b>Explosion Data</b>	N/A	
<b>Hazardous Combustion Products</b>	N/A	

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Leak and Spill Procedures</b>	N/A
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## SECTION 7. HANDLING AND STORAGE

<b>Handling Requirements</b>	Keep dry. If stored or shipped in sealed containers, do not break the seal.
<b>Storage Requirements</b>	Keep away from moisture.

## SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Exposure Limits</b>	N/A
<b>Specific Engineering Controls</b>	N/A
<b>Personal Protective Equipment</b>	<input checked="" type="checkbox"/> Gloves, <input type="checkbox"/> Respirator, <input type="checkbox"/> Eye, <input type="checkbox"/> Footwear, <input type="checkbox"/> Clothing, <input type="checkbox"/> Other
	Use rubber or plastic gloves

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	White ceramic powder
<b>Odor</b>	None
<b>Molecular Formula</b>	$(\text{Na}_2\text{O})_{1.67}(\text{MgO})_{1.34}(\text{Al}_2\text{O}_3)_{10.33}$ or $\text{Na}_{1.67}\text{Mg}_{0.67}\text{Al}_{10.33}\text{O}_{17}$
<b>Specific Gravity</b>	3.27
<b>Vapor Density (air = 1)</b>	N/A
<b>Vapor Pressure (mmHg)</b>	N/A
<b>Boiling Point (°C)</b>	N/A
<b>Melting/Freezing Point (°C)</b>	2000°C
<b>Solubility in Water</b>	Not soluble

## SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions Absorbs water and carbon dioxide on exposure to air
<b>Possibility of Hazardous Reactions</b>	None

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Toxicity</b>	N/A
<b>Carcinogenicity</b>	None known
<b>Teratogenicity</b>	None known
<b>Mutagenicity</b>	None known

## SECTION 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity</b>	N/A
<b>Persistence and Degradability</b>	N/A
<b>Bioaccumulative Potential</b>	N/A
<b>Mobility in Soil</b>	N/A

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Instruction</b>	N/A
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## SECTION 14. TRANSPORT INFORMATION

<b>DOT Classification</b>	N/A
<b>Air transport ICAO/IATA</b>	N/A

## SECTION 15. REGULATORY INFORMATION

<b>OSHA</b>	N/A
<b>SARA</b>	N/A
<b>TSCA</b>	N/A
<b>Other Regulatory Information</b>	

## SECTION 16. OTHER INFORMATION

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