



# MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):  
21-111-11

Product Name: Ceramic Bondable Button

Release Date: February 27, 2006

## 1. Product and Company Identification

<b>Trade Name &amp; Synonyms</b> Ceramic bondable button	<b>MSDS Code Number</b> Refer to part number
<b>Chemical Name</b> NA	<b>Manufacture / Distributor</b> GAC International Inc.
<b>C.A.S. Number</b> NA	<b>Address</b> 355 Knickerbocker Ave. Bohemia, NY USA 11716
<b>Grades or Minor Variant Identities</b> NA	<b>Information Telephone Number</b> 1-631-419-1700
<b>Product Use (for Canada)</b> NA	<b>Emergency Telephone Number</b> 1-631-419-1700

## 2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
High pure Alumina oxide	NA	NA	99.998
CDB ceramic brackets and lingual buttons are not generally considered hazardous in the form they are shipped. Further grinding or cutting or any other procedure that causes a release of dust, hazardous levels of dust may be generated.	NA	NA	NA

## 3. Hazard Identification

<b>Emergency Overview</b> NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	No documented irritations when using bracket in the form they are shipped.	NA	NA	NA	NA
Skin	No documented irritations when using bracket in the form they are shipped.	NA	NA	NA	NA
Inhalation	No documented irritations when using bracket in the form they are shipped.	NA	NA	NA	NA
Ingestion	No documented irritations when using bracket in the form they are shipped.	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
<b>Medical Conditions Aggravated by Exposure</b> NA					
<b>Carcinogenicity (IARC, NTP)</b> NA					
<b>Potential Environmental Effects</b> NA					

## 4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush thoroughly with water.	Consult a physician.	NA
Skin	Wash with water and mild detergent.	Consult a physician.	NA
Inhalation	Move person to fresh air until recovered.	Consult a physician.	NA
Ingestion	Ingestion of large enough quantities to cause health effects is unlikely.	Consult a physician if it occurs.	NA
Other	NA	NA	NA
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b> NA			



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## 5. Fire and Explosion Data

<b>Flashpoint &amp; Method:</b> °C / °F Non flammable	<b>Flammable (Explosive) Limits in Air</b> LEL: NA UEL: NA	<b>Autoignition Temperature</b> NA	<b>Other</b> NA
<b>Flame Propagation or Burning</b> NA	<b>Properties Contributing to Fire Intensity</b> NA	<b>Flammability Classification</b> Health-, Flammability-, Reactivity-NA	
<b>Extinguishing Media</b> None		<b>Extinguishing Media to Avoid</b> NA	
<b>Protection and Procedures for Firefighters</b> None			
<b>Unusual Fire and Explosion Hazards</b> None			

## 6. Accidental Release Measures

<b>Containment Techniques</b> <b>Environmental precautions:</b> None. Dispose in accordance with local regulations.
<b>Spill/Leak Clean-Up Procedures and Equipment</b> Sweep up to avoid slipping hazards.
<b>Evacuation Procedures</b> NA
<b>Special Instructions</b> NA
<b>Reporting Requirements</b> NA

## 7. Handling and Storage

<b>Handling Practices and Warnings</b> None
<b>Storage Practices and Warnings</b> None

## 8. Exposure Control/Personal Protection

<b>Ventilation</b> NA	<b>Other Engineering Controls</b> NA	
<b>Routes of Entry:</b>	<b>Personal Protective Equipment (PPE) for Normal Use:</b>	<b>PPE for Emergencies:</b>
<b>Eye/Face</b>	Only required when cutting, grinding or welding.	NA
<b>Skin</b>	Only required when cutting, grinding or welding.	NA
<b>Inhalation</b>	Only required when cutting, grinding or welding	NA
<b>General Hygiene Considerations and Work Practices</b> NA		
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment</b> NA		
<b>Other Protective Measures and Equipment</b> NA		



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## 9. Physical and Chemical Characteristics

<b>Appearance</b> Solid. Color: Translucent		<b>Odor</b> Odorless
<b>Normal Physical State:</b> <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> _____ (Other)		<b>Boiling Point</b> °C / °F <u>Not known</u> <b>Melting Point</b> <u>1950°C</u> °F <b>Freezing Point</b> °C / °F <u>NA</u>
<b>Specific Gravity or Density (H<sub>2</sub>O=1)</b> 2.5 – 5.0	<b>Solubility in Water</b> Insoluble	<b>pH</b> NA
<b>Vapor Pressure (mm Hg @ 20°C)</b> NA	<b>Vapor Density (AIR= 1)</b> >1	<b>Evaporation Rate (Butyl Acetate = 1)</b> NA
<b>Other</b> NA		

## 10. Stability and Reactivity Data

<b>Incompatibility (Materials to Avoid)</b> None		
<b>Hazardous Products Produced During Decomposition</b> N/A		
<b>Hazardous Polymerization?</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur		<b>Conditions to Avoid</b> °C / °F None
<b>Stability?</b> <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable		<b>Conditions to Avoid</b> °C / °F NA

## 11. Toxicological Information

<b>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data</b> This material is not hazardous in normal storage and handling.
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## 12. Ecological Information

<b>Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements</b> No ecological effects are known.
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## 13. Disposal Considerations

<b>Regulations</b> Landfill in accordance with all applicable federal, state and local regulations. The possibility of recycling must be proofed under local regulations.
<b>Properties (Physical/Chemical) Affecting Disposal</b> NA



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## 14. Transport Information

<b>Regulated for shipping?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Proper Shipping Name</b> Ceramic Bondable Button	<b>Packing Group</b> N/A
<b>Do changes in quantity, packaging, or shipment method change product classification?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Hazard Class</b> Non-hazardous	<b>Identification Number</b> N/A
<b>Other</b> Not dangerous according to current transportation regulations.		

## 15. Regulatory Information

<b>Federal Regulations</b> Identification according to EC-Directive. No obligatory indication.
<b>International Regulations</b> NA
<b>Other</b> No obligatory identification according to chemG BGBl.Nr.53/1997(Osterreich)

## 16. Other Information

<b>Supplier Number:</b> 56/21 <b>Supplier Release:</b> July 28, 2002
N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.