Section 1: Product and Company Identification

Product Name
Gold Bond® BRAND Ball Mill Accelerator with Starch

Product Identifiers
Ball Mill Accelerator (BMA)

Other means of identification
Set accelerator

Recommended Use
Used as an accelerator to control the set of gypsum board core during manufacturing. Use per manufacturer’s recommendations.

Restrictions on Use
Use in well-ventilated area and avoid breathing dust.
Avoid skin contact.

Manufacturer/Supplier Details
National Gypsum Company
2001 Rexford Road
Charlotte, NC 28211

Emergency Telephone Number
Director Quality Services
(704) 551-5820 - 24 Hour Emergency Response
Website: www.nationalgypsum.com

Section 2: Hazards Identification

United States (US)
According to OSHA 29CFR 1910.1200 (HCS)

GHS Classification of the substance or mixture
Specific target organ toxicity, repeated exposure – Category 2 (H-373)
Acute toxicity, inhalation - Category 4 (H-332)
Acute toxicity, dermal - Category 4 (H-312)

Hazards not otherwise classified
Dust may be combustible under certain conditions and concentrations.

GHS Label Elements
Pictogram

Signal Word
Warning

Hazard Statements
H-373 Causes damage to organs through prolonged or repeated exposure (lungs)
H-312 & 332 Harmful in contact with skin or inhaled.
Precautionary Statements

Prevention
Do not breathe dust. Use personal protective equipment as required. (See Section 8) Use engineering controls and wet methods to minimize dust. Do not allow dust to accumulate.

Response
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If on skin, wash contaminated area of body with soap and fresh water. If in eyes, first rinse with plenty of water for several minutes (remove contact lenses, if easily possible), then get medical attention. Get medical attention if exposed or concerned.

Storage
Store material in a cool, dry, ventilated area, away from excessive heat or sunlight.

Disposal
Dispose of material in accordance with federal, state, and local regulations.

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common name/Synonym</th>
<th>Identifiers</th>
<th>% (weight)</th>
<th>Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sulfate Dihydrate</td>
<td>Gypsum, Landplaster</td>
<td>10101-41-4</td>
<td>&gt;40</td>
<td>Crystalline silica (CAS # 14808-60-7)</td>
</tr>
<tr>
<td>Starch</td>
<td></td>
<td>9005-25-8</td>
<td>&lt;60</td>
<td></td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Inhalation
In case of accident by inhalation, remove casualty to fresh air and keep at rest. If signs / symptoms continue, get medical attention.

Eye contact
First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then get medical attention.

Skin contact
Wash the contaminated area with soap and fresh water. If irritation develops and persists, get medical attention.

Ingestion
This product is not expected to be hazardous and no harmful effects are expected upon ingestion of small amounts. Larger amounts may cause abdominal discomfort or possible obstruction of the digestive tract. Seek medical attention if problems persist.

Medical Conditions aggravated by exposure
Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

Section 5: Fire-Fighting Measures

Extinguishing Media
Dry chemical, foam, water, or extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosion Hazards
Mixture poses no fire-related hazard other than potential combustibility of the dust.
Special hazards arising from the mixture
None known. Above 1450° C, material can decompose and release sulfur dioxide (SO₂) and oxides of carbon.

Special Protective Equipment and Precautions for Firefighters
A SCBA is recommended to limit exposures to combustion products when fighting any fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
No special precautions required.
General recommendations:
Wear appropriate Personal Protective Equipment. (See Section 8)
Maintain proper ventilation.

Environmental precautions
This product does not present an ecological hazard to the environment.
Dispose of in accordance with applicable federal, state, and local regulations. Do not wash material down drains.

Methods and materials for containment and cleaning up
Vacuum spilled material utilizing a vacuum equipped with a HEPA filter. Avoid dry sweeping.
Maintain proper ventilation to minimize dust. Do not allow dust to accumulate.
Avoid washing material down drains. This material will eventually set and can cause clogs.

Section 7: Handling and Storage

Precautions for safe handling
Avoid breathing dust.
Minimize generation of dust.
Provide appropriate exhaust ventilation at places where dust is formed.
Avoid contact with eyes, skin and clothing.
Wear recommended personal protective equipment when handling. (See Section 8)

Conditions for safe storage, including any incompatibilities
Store material in a cool, dry, well ventilated area, away from heat and ignition sources. Keep from direct sunlight.
Keep containers closed when not in use.
Avoid contact with acids and water.

Section 8: Exposure Controls/Personal Protection

Control Parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA PEL (mg/m³)</td>
</tr>
<tr>
<td>Calcium Sulfate-Hemihydrate</td>
<td>15 (T)</td>
</tr>
<tr>
<td></td>
<td>5 (R)</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>0.050 (R)</td>
</tr>
<tr>
<td>Starch</td>
<td>15 (T)</td>
</tr>
<tr>
<td></td>
<td>5 (R)</td>
</tr>
</tbody>
</table>

T: Total Dust  R: Respirable Dust  1 – Present as an impurity in raw materials

Exposure Controls

Appropriate Engineering Controls
Work/Hygiene Practices: Utilize methods to minimize dust production. Utilize wet methods, when appropriate, to reduce generation of dust.
Ventilation: Use only with adequate ventilation to keep exposures (airborne dust) below recommended exposure limits.

Personal Protective Equipment

Respiratory Protection
In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH approved respiratory protection. OSHA’s 29 CFR 1910.134 (Respiratory Protection Standard) must be followed whenever work conditions require respirator use.
Eye Protection
Safety glasses or goggles.

Skin
Gloves, protective clothing and/or barrier creams may be utilized if conditions warrant.

Section 9: Physical and Chemical Properties

(a) Appearance: White/gray powder
(b) Odor: None
(c) Odor threshold: Not available
(d) pH: ~7
(e) Melting point/freezing point: Not Available
(f) Initial boiling point and boiling range: Not Available
(g) Flash point: Not available
(h) Evaporation rate: Not available
(i) Flammability (solid, gas): Not flammable
(j) Upper/lower flammability or explosive limits: Not available
(k) Vapor pressure: Not available
(l) Vapor density: Not available
(m) Relative density: 2.3 g/cc
(n) Solubility(ies): 2.1 g/L @ 20° C
(o) Partition coefficient: n-octanol/water: Not available
(p) Auto-ignition temperature: Not available
(q) Decomposition temperature: 1450°C
(r) Viscosity: Not available
(s) Volatile organic compound (VOC) content: None

Section 10: Stability and Reactivity

(a) Reactivity: No data available
(b) Chemical stability: Stable in dry environments
(c) Possibility of hazardous reactions: None known
(d) Conditions to avoid (e.g., static discharge, shock, or vibration): None known
(e) Incompatible materials: Strong acids
(f) Hazardous decomposition products: None known. Above 1450°C gypsum will decompose to calcium oxide (CaO), with releases of sulfur dioxide (SO₂) and various oxides of carbon.

Section 11: Toxicological Information

Information on Toxicological effects
Information on likely routes of exposure
Ingestion Possible abdominal discomfort or obstruction.
Inhalation Dust may irritate respiratory system. Chronic exposure may result in lung disease. (See below)
Skin contact May cause irritation, rash, itching, or dermatitis.
Eye contact Dust may cause mechanical irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Continued and prolonged contact may result in dry skin. Contact with dust may produce itching, rash and/or redness. Repeated or prolonged exposure may result in dermatitis. Acute exposure to airborne dust concentrations in excess of the PEL/TLV may result in coughing, dyspnea, wheezing, and a burning irritation of the nose, throat, and upper respiratory tract, along with possible impaired pulmonary function. Chronic exposure to crystalline silica (a naturally occurring contaminant) in the respirable size has been shown to cause silicosis, a debilitating lung disease, and lung cancer.

Toxicological data
No toxicological data is available for this product. Toxicological information for components of this product listed below.

Acute toxicity Plaster of Paris: Oral LD50 (rat): >5000 mg/kg
Skin corrosion/irritation Not available
Serious eye damage/eye irritation Not available
Skin sensitization Not available
Respiratory sensitization Not available
Sensitization Not available
Mutagenicity No evidence of mutagenicity on Ames Test.
Carcinogenicity Not available

This product contains crystalline silica (quartz) as a naturally occurring impurity in some of the raw materials. The International Agency for Research on Cancer (IARC) classifies crystalline silica inhaled in the form of quartz or cristobalite from occupational sources as carcinogenic to humans, Group 1. The National Toxicology Program (NTP) classifies respirable crystalline silica as a substance which may be reasonably anticipated to be a carcinogen. OSHA does not regulate crystalline silica as a human carcinogen. Exposures to respirable crystalline silica are not expected during the recommended use of this product. Industrial hygiene monitoring to date has not identified any detectable respirable crystalline silica in dust sampling conducted utilizing recommended application procedures. However, actual levels must be determined by workplace hygiene testing.

Reproductive effects Not available
Specific target organ toxicity – single exposure Not available
Aspiration toxicity Not available

Section 12: Ecological Information

(a) Ecotoxicity (aquatic and terrestrial, where available): This product does not present an ecological hazard to the environment.
(b) Persistence and degradability: Unknown
(c) Bioaccumulative potential: Gypsum is a naturally occurring mineral. Biodegradation and/or bioaccumulation potential is not applicable.
(d) Mobility in soil: Unknown
(e) Other adverse effects (such as hazardous to the ozone layer): None known

Section 13: Disposal Considerations

This material is not considered a hazardous waste. This material and its container must be disposed of in a safe way. Dispose of according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14: Transport Information

This product is not a DOT hazardous material
Shipping Name: Same as product name
ICAO/IATA/IMO: Not applicable

Section 15: Regulatory Information

All ingredients are included on the TSCA inventory.
Federal Regulations
SARA Title III: Not listed under Sections 302, 304, and 313
CERCLA: Not listed
RCRA: Not listed
OSHA: Dust and potential respirable crystalline silica generated during product use may be hazardous.
State Regulations
California Prop 65: Respirable crystalline silica is known to the state of California to cause cancer. Industrial hygiene monitoring during recommended use of this product failed to identify any respirable crystalline silica.
Canada WHMIS
All components of this product are included in the Canadian Domestic Substances List (DSL).
Crystalline silica: WHMIS Classification D2A

Section 16: Other Information

SDS Prepared by: National Gypsum Company
2001 Rexford Road
Charlotte, NC 28211
Phone Number: (704) 551-5820

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Revision indicators and Date
Effective Date Change: 10/12/16  Supersedes: April 5, 2015

Key to Abbreviations
ACGIH  American Conference of Governmental Industrial Hygienists
CAS  Chemical Abstract Services Number
CFR  Code of Federal Regulations
DOT  Department of Transportation
EPA  Environmental Protection Agency
HEPA  High Efficiency Particulate Air
HCS  Hazard Communications Standard
HMIS  Hazardous Material Identification System
IARC  International Agency for Research on Cancer
IATA  International Air Transport Association
ICAO  International Civil Aviation Organization
IMO  International Maritime Organization
NIOSH  National Institute for Occupational Safety and Health
NFPA  National Fire Protection Association
NTP  National Toxicology Program
OSHA  Occupational Safety and Health Administration
PEL  Permissible Exposure Limit
PPE  Personal Protective Equipment
TLV  Threshold Limit Value
TSCA  Toxic Substance Control Act
TWA  Time Weighted Average
WHMIS  Workplace Hazardous Materials Information System

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System (GHS).

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