Section 1: Product and Company Identification

Product Name-Identifier
DEXcell® Cement Roof Board

Recommended Use
As a coverboard and/or thermal barrier in commercial roofing applications.
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
Carcinogenicity - Category 1A - (H-350)
Specific target organ toxicity, repeated exposure – Category 1 (H-372)
Acute toxicity, inhalation - Category 4 (H-332)
Skin corrosion/irritation Category 2 (H315)
Serious eye damage/eye irritation – Category 1 (H-318)

GHS Label Elements
Pictogram

Signal Word Danger
Hazard Statements
H-350 May cause cancer.
H-332, 372 Harmful if inhaled. Causes damage to organs (lungs) through prolonged or repeated exposure.
H-315, 318 May cause severe skin burns and eye damage

Precautionary Statements
Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Use personal protective equipment as required. (See Section 8)
Use engineering controls and wet methods to minimize dust.
Section 2: Hazards Identification (Continued)

Response
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If on skin, wash with plenty of soap and water. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 CAS Number</th>
<th>% (weight)</th>
<th>Impurities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide (SiO₂)</td>
<td>Sand, quartz</td>
<td>14808-60-7</td>
<td>&lt;50</td>
<td></td>
</tr>
<tr>
<td>Mixture-calcium and aluminum silicates</td>
<td>Portland Cement</td>
<td>65997-15-1</td>
<td>&lt;25</td>
<td>Crystalline silica</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(CAS # 14808-60-7)</td>
</tr>
<tr>
<td>Mixture-silicates, aluminates</td>
<td>Pozzolan, fly ash</td>
<td>68131-74-8</td>
<td>&lt;25</td>
<td>Crystalline silica</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(CAS # 14808-60-7)</td>
</tr>
<tr>
<td>Mixture-calcium aluminates</td>
<td>High Alumina Cement</td>
<td>65997-16-2</td>
<td>&lt;6</td>
<td>Crystalline silica</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(CAS # 14808-60-7)</td>
</tr>
<tr>
<td>Mixture-calcium, aluminum silicates,</td>
<td>Fiberglass scrim or</td>
<td>65997-17-3</td>
<td>&lt;5</td>
<td></td>
</tr>
<tr>
<td>amorphous silica</td>
<td>fiberglass mat laminate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Inhalation
Remove exposed individual to fresh air immediately. If breathing difficulty persists, seek medical attention.

Eye contact
Do not rub or scratch eyes. Immediately flush eyes with water for 15 minutes.

Skin contact
Flush and wash skin with soap and water. Utilize lotions to alleviate dryness if present. Seek medical attention if irritation persists.

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.

Special hazards arising from the mixture
None known

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
Product is an article composite.
General recommendations:
Wear appropriate Personal Protective Equipment. (See Section 8)
Maintain proper ventilation.

Environmental precautions
This product could be toxic to fish due to its high alkalinity from the Portland Cement.
Dispose of in accordance with applicable federal, state, and local regulations.

Methods and materials for containment and cleaning up
Pick-up larger pieces to avoid a tripping hazard.
Sweep or vacuum remaining material into a waste container for disposal.
Use a light water spray to minimize dust generation.

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, ventilated area, away from excessive heat or sunlight.
Store panels flat to minimize damage.
Do not stack panels too high when storing to minimize the risk of falling.
Avoid contact with strong acids.

Section 8: Exposure Controls/Personal Protection

Control Parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL (mg/m3)</th>
<th>ACGIH TLV (mg/m3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland Cement</td>
<td>15 (T) 5 (R)</td>
<td>10 (T)</td>
</tr>
<tr>
<td>High Alumina Cement</td>
<td>15 (T) 5 (R)</td>
<td>10 (T)</td>
</tr>
<tr>
<td>Pozzolan</td>
<td>15 (T) 5 (R)</td>
<td>10 (T)</td>
</tr>
<tr>
<td>Sand</td>
<td>[(10) / (%SiO2+2)] (T); [(30) / (%SiO2+2)] (R)</td>
<td>0.025 (R)</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)¹</td>
<td>[(10) / (%SiO2+2)] (R); [(30) / (%SiO2+2)] (T)</td>
<td>0.025 (R)</td>
</tr>
<tr>
<td>Fiberglass Scrim</td>
<td>15 (T) 5 (R)</td>
<td>1 f/cc(R)</td>
</tr>
</tbody>
</table>

¹ = Present as an impurity in raw materials
T - Total Dust
R - Respirable Dust
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: Provide local and general exhaust ventilation sufficient to maintain a dust level below the PEL/TLV.

Personal Protective Equipment
Respiratory Protection
A NIOSH approved particulate respirator is recommended in poorly ventilated areas or if the PEL/TLV is exceeded. 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: Gray color
(b) Odor: Low to none
(c) Odor threshold: Not available
(d) pH: ~12
(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: ~1.2
(n) Solubility(ies): Slightly soluble in water
(o) Partition coefficient: n-octanol/water: Not available
(p) Auto-ignition temperature: Not available
(q) Decomposition temperature: Unknown
(r) Viscosity: Not available
(s) VOC (Volatile Organic Compound): 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): Contact with strong acids.
(e) Incompatible materials: Strong acids
(f) Hazardous decomposition products: None known.

Section 11: Toxicological Information

Information on Toxicological effects
Information on likely routes of exposure
Ingestion: May cause gastrointestinal irritation.
Inhalation: Dust may irritate respiratory system. Chronic exposure may result in lung disease. (See below)
Skin contact: May cause burns, irritation, itching or dermatitis. (See below)
Eye contact  Contact with dust may cause burns and/or mechanical irritation.

Symptoms related to the physical, chemical and toxicological characteristics
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 exposures may result in lung disease. (Silicosis and/or lung cancer)
Contact with wet Portland Cement may cause severe irritation, redness, and possible burns. Continued and prolonged contact may result in drying of the skin. Contact with dust or glass fibers may produce itching, rash and/or redness. Repeated or prolonged exposure may result in dermatitis.

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

Acute toxicity  Not available
Skin corrosion/irritation  Not available
Serious eye damage/eye irritation  Not available
Skin sensitization  Not available
Respiratory sensitization  Not available
Sensitization  Not available
Mutagenicity  Not available
Carcinogenicity  Not available

This product contains crystalline silica. (quartz) 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.

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 could be toxic to fish due to its high alkalinity from the Portland Cement. No studies are available.
(b) Persistence and degradability: Unknown
(c) Bioaccumulative potential: Unknown.
(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. 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.

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

Date of Preparation: April 24, 2015
Revision indicators and Date
Effective Date Change: 6/1/2015 Supersedes: January 22, 2014
Format Changes: Conforms to OSHA 29CFR 1910.1200 (HCS)

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).

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