GLC Minerals
Safety Data Sheet

SECTION 1. IDENTIFICATION
Product Identifier GlassDolo 345, M-Cal, Magnacarb, InstaLime, M-Cal Fines
Manufacturer GLC Minerals, LLC
1450 Bylsby Ave.
Green Bay, WI, 54306-2236
Phone Number 920-432-7731

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards
None

Health Hazards
Skin corrosion/irritation - Category 3, Mild Irritant; Serious Eye Damage/Irritation - Category 2B, Mild Irritant; Carcinogenicity - Category 1A, Known human carcinogen

Label Elements

Signal Word
DANGER

Pictograms

Hazard Statements
Causes cancer if inhaled
Causes mild eye and skin irritation

Precautionary Statements
Do not handle until all safety precautions have been read and understood.
Do not breathe dust
Wash thoroughly after handling
Use personal protective equipment as required (safety glasses with side-shields if there is a risk of particles getting in eyes; respiratory protection if dust concentrations exceed the applicable occupational exposure limits).

Dispose of according to federal, state and local regulations
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>55</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>44</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
<td>1.4</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

**Inhalation**
If respiratory symptoms develop, remove source of exposure and move to fresh air. Get medical advice/attention if symptoms persist.

**Skin Contact**
Wash gently and thoroughly with lukewarm, gently flowing water and mild soap. Get medical advice/attention if irritation persists.

**Eye Contact**
Rinse the eye(s) with lukewarm, gently flowing water, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

**Ingestion**
Rinse mouth with water. Get medical advice/attention if you feel unwell or are concerned.

Most Important Symptoms
Eye and respiratory tract irritation

SECTION 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Not combustible. Use extinguishing agent suitable for the surrounding fire.

**Specific Hazards Arising from the Chemical**
Does not burn. Calcium carbonate decomposes at high temperature (1742 °F/950 °C) to give gaseous carbon dioxide, calcium oxide (quicklime) and magnesium oxide.

**Special Protective Equipment and Precautions for Fire-fighters**
No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures**
Avoid skin and eye contact. Avoid generating dust.

**Methods and Materials for Containment and Cleaning Up**
Utilize methods that avoid generating dust.
SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid skin and eye contact. Avoid generating dust.

Conditions for Safe Storage
Store away from incompatible materials (see Section 10).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>OSHA PEL (mg/m³)</th>
<th>ACGIH TLV® (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>15 (TWA)</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 (TWA)(R)</td>
<td></td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>546-93-0</td>
<td>15 (TWA)</td>
<td>10 (TWA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 (TWA)(R)</td>
<td>3 (TWA)(R)</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respirable dust</td>
<td></td>
<td>10/2+% quartz (TWA) (R)</td>
<td>NE</td>
</tr>
<tr>
<td>Respirable silica *</td>
<td></td>
<td>0.1 (TWA) (R)</td>
<td>0.025 (TWA) (R)</td>
</tr>
</tbody>
</table>

* Some U.S. states with state run OSHA programs may use this PEL rather than the Federal OSHA PEL. MSHA uses the same PEL as OSHA.

Exposure Limit Abbreviations
- **NE**= None Established
- **ACGIH TLV**= American Conference of Governmental Industrial Hygienists Threshold Limit Value®, 2015 Edition
- **OSHA PEL**= Occupational Health and Safety Administration Permissible Exposure Limit
- **MSHA PEL**= Mine Safety and Health Administration Permissible Exposure Limit
- **TWA**= Time Weighted Average
- **STEL**= Short Term Exposure Limit
- **C**= Ceiling Limit
- **mg/m³**= milligram of substance per cubic meter of air
- **R**= Respirable fraction of particulate sampled
- **I**= Inhalable fraction of particulate sampled

Engineering Controls
Use with adequate general or local exhaust ventilation and to maintain exposure below occupational exposure limits.

Individual Protection Measures (Personal Protective Equipment):

**Eye Protection**
Wear safety glasses with side-shields if there is a risk of particles getting in eyes

**Skin protection**
No special chemical protective clothing is required. If material is processed, provide appropriate protective clothing and gloves for the application.
**Respiratory Protection**
In the solid state, no special requirements are necessary. If exposures exceed the applicable exposure limits, a NIOSH approved respirator should be selected based on the form and concentration of the contaminant in air.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Grayish-white powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>9</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>1742 °F (950° C) (Calcium carbonate) (melting)</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/Lower Flammability or Explosive Limit</td>
<td>Not applicable (upper); Not applicable (lower)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density (air = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density (water = 1)</td>
<td>2.7 (Calcium carbonate)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient, (n-Octanol/Water (Log Kow))</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>1742 °F (950 °C)(calcium carbonate)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity**
Not reactive under normal conditions of use.

**Chemical Stability**
 Normally stable.

**Possibility of Hazardous Reactions**
Incompatible with acids, alum, ammonium salts, fluorine, magnesium, reactive fluoridated, brominated or phosphorous compounds; aluminum (may form hydrogen gas), ammonium salts, mercury, hydrogen, magnesium, reactive powdered metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds. Reacts with acids and acidic salts to generate gaseous carbon dioxide with effervescence (bubbling) and heat. The reaction is rapid and exothermic with concentrated solutions of acids. The effervescence can create extensive foaming.

**Hazardous Decomposition Products**
None expected under conditions of normal use. Reacts with acids and acidic salts to generate gaseous carbon dioxide with effervescence (bubbling) and heat. The reaction is rapid and exothermic with concentrated solutions of acids. The effervescence can create extensive foaming.
SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>6450 mg/kg (mouse)</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>&gt; 2000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation
Mild irritation

Serious Eye Damage or Irritation
Mild irritation

Respiratory or Skin Sensitization
Not known to cause sensitization

Germ Cell Mutagenicity
The ingredients are not known to be mutagenic.

Carcinogenicity
- Calcium carbonate: Not listed by IARC, NTP or OSHA
- Magnesium carbonate: Not listed by IARC, NTP or OSHA
- Silica, crystalline silica: IARC-Group 1 (carcinogenic to humans-Group 1); NTP-K (known to be a human carcinogen); OSHA-not listed.

Reproductive Toxicity
The ingredients are not known to be mutagenic.

Chronic Health Effects
This product contains a small amount of crystalline silica. Prolonged inhalation of respirable crystalline silica may cause silicosis, a potentially serious lung disease. Studies have shown fibrotic lung disease in humans exposed to limestone dust, however, the health effects are thought to be associated with the presence of silica in the minerals processed or mined.

SECTION 12. ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50 Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium carbonate</td>
<td>2120-2820 mg/L (Pimephales promelas (fathead minnow); 96-hour,fresh water; static</td>
</tr>
</tbody>
</table>

SECTION 13. DISPOSAL CONSIDERATIONS
Dispose of according to federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)
Product is not regulated

International Maritime Dangerous Goods (IMDG)
Product is not regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Product is not regulated

International Civil Aviation Org./ International Air Transport Assoc. (ICAO/IATA)
Product is not regulated

SECTION 15. REGULATORY INFORMATION

CERCLA Hazardous Substances
Not listed

SARA Toxic Chemical (40 CFR 372.65)
Not listed

SARA Section 302 Extremely Hazardous Substances (40 CFR 355)
Not listed

SARA 311/312
Not listed

SARA Section 313 Toxic Chemicals reporting requirements
None

Threshold planning quantity (TPQ)
Not listed

RCRA Hazardous Waste Classification (40 CFR 261)
Not Classified

EPA Toxic Substances Control Act (TSCA) Status:
All of the components of this product are listed on the TSCA

California Proposition 65 Compliance
This product contains or produces chemicals (crystalline silica) known to the State of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code 25248.5 et seq.)

SECTION 16. OTHER INFORMATION

DATE Revised: July 20, 2016 (Rev. 2) PREPARER: Kay Rowntree, CIH
Industrial Hygiene Sciences, LLC

This MSDS is intended to be used as a guide to the appropriate handling, storage, and use of this product by an adequately trained person. GLC Minerals, LLC and Industrial Hygiene Sciences, LLC is not responsible for the misuse, mishandling or improper storage of this material by the user. GLC MINERALS, LLC AND INDUSTRIAL HYGIENE SCIENCES, LLC NEITHER MAKES, NOR OFFERS NOR SHALL BE HELD LIABLE FOR ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE USE OF THE INFORMATION PROVIDED.