SAFETY DATA SHEET
Progyp Gypsum Products

Section 1: Product and Company Identification

Product Name
Progyp Ag-Grade, Special-Grade, Mid-Grade, Fine-Grade and Solution-Grade

Product Identifiers
Calcium Sulfate
Calcium Sulfate Dihydrate
Gypsum

Recommended Use
Crop, Turf, Soil and Landscape (AG, Home, Nursery and Golf Course Markets)

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

Manufacturer/Supplier Details
Granco Minerals
23011 Airpark Drive
Petersburg, VA 23803

Emergency Telephone Number
(804) 732-6551 – 8 am to 4 pm, M-F

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 (H312)

GHS Label Elements
Pictogram

Signal Word Hazard Statements
Warning
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.

Date of Preparation: January, 2016
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>Calcium Sulfate Dihydrate</td>
<td>Gypsum</td>
<td>10101-41-4</td>
<td>&gt;96</td>
<td>Crystalline silica (CAS # 14808-60-7)</td>
</tr>
<tr>
<td>Lignin Sulfonate</td>
<td>Lignosulfonate</td>
<td>8061-53-8</td>
<td>&lt;4</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.
Remove contact lenses (if applicable). Seek medical attention if irritation persists.

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.

Date of Preparation: January, 2016
Section 5: Fire-Fighting Measures

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

Unusual Fire and Explosion Hazards
Mixture poses no fire-related hazard.

Special hazards arising from mixture
None known. Above 1450°C, material can decompose and release sulfur dioxide (SO₂) and oxides 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

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.

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.

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. Keep containers closed when not in use.

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>Calcium Sulfate Dihydrate</td>
<td>15(T), 5(R)</td>
<td>10(T)</td>
</tr>
<tr>
<td>Lignin Sulfonate</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>
| Crystalline Silica\(^1\) | \[
|                         | [(10) / (%SiO₂+2)](R) | 0.025(R)         |
|                         | [(30) / (%SiO₂+2)](T) |                 |

\(^1\) T- Total Dust
R-Respirable Dust
1 – Present as an impurity in raw materials

Date of Preparation: January, 2016
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:
(1) AG, Mid and Fine- Grades - Light to dark gray, granular products
(2) Solution-Grade – tan, powder
(b) Odor: Slight
(c) Odor threshold: Not available
(d) pH: 5.5 to 6.8
(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) Bulk density: 65 to 75 lb/ft³ (1040 to 1200 kg/m³)
(n) Decomposition temperature: 1450°C

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
Gypsum: [OECD TG 420, Fixed dose procedure] Oral LD50 > 2,000-mg/kg b.w. for female rats (Sprague-Dawley)

Skin corrosion/irritation
Gypsum was not irritating to the skin of rabbits at 1, 24, 48 and 72 hours after removal of test patches [OECD TG 404]

Serious eye damage/eye irritation
Not available

Skin sensitization
There is no indication of skin sensitization in guinea pigs [OECD TG 406].

Respiratory sensitization
Not available

Sensitization
Not available

Mutagenicity
No evidence of mutagenicity on Ames Test.

Carcinogenicity
Not available

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. 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

Date of Preparation: January, 2016
Section 16: Other Information

SDS Prepared by: Granco Minerals
23011 Airpark Drive
Petersburg, VA 23803

Phone Number: 804-732-6551

Date of Preparation: June 1, 2015
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 Hazard
HCS 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).

Disclaimer of Liability:
As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained for the use thereof.