1. Product and Company Identification

Material name: Toughrock® All-Purpose Semi-Lightweight READY MIX™ Joint Compounds

Product use: Premixed compound for finishing gypsum board joints and spotting fasteners

Product list: See Product List found in Section 16

Manufacturer information:
Georgia-Pacific Gypsum LLC
133 Peachtree Street, NE
Atlanta, GA 30303
MSDS Request 404.652.5119
Technical Information 800.225.6119
Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview: CAUTION!
Crushing, mixing, sanding or otherwise working with this product may generate large amounts of dust. Dust can be irritating to eyes, skin and respiratory system.

Potential health effects

Eyes: Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin: Handling can cause dry skin. Dust may cause skin irritation.
Inhalation: Dusts of this product may cause irritation to the nose, throat, or respiratory tract.
Ingestion: Not applicable under normal conditions of use. May result in obstruction or temporary irritation of the digestive tract.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIMESTONE (CALCIUM CARBONATE)</td>
<td>1317-65-3</td>
<td>30 - 60</td>
</tr>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>30 - 60</td>
</tr>
<tr>
<td>ATTAPULGITE</td>
<td>8031-18-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>CRystalline Silica (Quartz)*</td>
<td>14808-60-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>MICA</td>
<td>12001-26-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>PERLITE</td>
<td>93763-70-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>TALC</td>
<td>14807-96-6</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

Composition comments: Limestone (calcium carbonate), mica, talc, perlite and attapulgite contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. See Section 8 for exposure information.

*The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

4. First Aid Measures

First aid procedures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact: For skin contact, wash immediately with soap and water. Get medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. If symptoms persist, get medical attention.

Ingestion: May result in obstruction and irritation if ingested. Get medical attention.
5. Fire Fighting Measures

Flammable properties: Not flammable by OSHA/WHMIS criteria.

Extinguishing media:
- Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Fire fighting equipment/instructions: Firefighters should wear full protective clothing including self contained breathing apparatus.

Explosion data:
- Sensitivity to static discharge: Not applicable.
- Sensitivity to mechanical impact: Not applicable.

Hazardous combustion products: May include and are not limited to: oxides of carbon.

6. Accidental Release Measures

Personal precautions: Use personal protection recommended in Section 8. Keep unnecessary personnel away from the release.

Environmental precautions: Keep out of drains, sewers, ditches, and waterways.

Methods for containment: Contain the spill, then place in a suitable container. Minimize dust generation.

Methods for cleaning up: Scoop up material and place in a disposal container. Utilize wet methods, if appropriate, to minimize dust.

7. Handling and Storage

Handling: Avoid contact with skin and eyes. Use only in well-ventilated areas. Handle and open container with care. Wear appropriate NIOSH approved dust mask or filtering facepiece if dust is generated. Do not eat or drink while using the product. Wash hands before eating, drinking, or smoking.

Storage: Keep the container tightly closed and dry. Store in a covered, dry, climate controlled area, away from incompatibles.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>ACGIH Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYS TALLINE SILICA (QUARTZ)* (14808-60-7)</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>(Respirable fraction)</td>
</tr>
<tr>
<td>MICA (12001-26-2)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>TALC (14807-96-6)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. - OSHA Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYS TALLINE SILICA (QUARTZ)* (14808-60-7)</td>
<td>TWA</td>
<td>4.3 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>LIMESTONE (CALCIUM CARBONATE) (1317-65-3)</td>
<td>PEL</td>
<td>1.4 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>MICA (12001-26-2)</td>
<td>TWA</td>
<td>20 mppcf</td>
<td></td>
</tr>
<tr>
<td>TALC (14807-96-6)</td>
<td>TWA</td>
<td>0.3 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4 mppcf</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>
Exposure guidelines

The US OSHA exposure limits for CRystalline SILica (QUARTZ) are calculated from the following equations: 30/(%SiO2+2) mg/m3 for total dust; and 10/(%SiO2+2) mg/m3 for the respirable fraction.

*The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

Engineering controls

When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust.

Personal protective equipment

Eye / face protection

Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 133 (eye and face protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151(c)).

Skin protection

Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)).

Respiratory protection

A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste-like compound</td>
</tr>
<tr>
<td>Color</td>
<td>Light grey to white</td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Low odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.2 - 1.4</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>1.5 % @ 22°C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Conditions of reactivity

Contact with strong acids produces carbon dioxide.

Incompatible materials

Acids.

Hazardous decomposition products

May include and are not limited to: oxides of carbon when heated to decomposition.

Possibility of hazardous reactions

Not expected under normal conditions of use.
11. Toxicological Information

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

Routes of exposure:
Skin contact. Eye contact. Inhalation.

Sensitization:
Not expected to be hazardous by OSHA/WHMIS criteria.

Chronic effects:
Not expected to be hazardous by OSHA/WHMIS criteria.

Carcinogenicity:
Hazardous by OSHA/WHMIS criteria.

Exposure to respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to a respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of respirable crystalline silica exposure and the length of time (usually years) of exposure.

ACGIH Carcinogens
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) US ACGIH Threshold Limit Values: A2 carcinogen

IARC Monographs Overall Evaluation of Carcinogenicity
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) 1 Volume 68, Volume 100C
TALC (CAS 14807-96-6) 2B Volume 93
3 Volume 42, Supplement 7, Volume 93

Mutagenicity:
Not expected to be hazardous by OSHA/WHMIS criteria.

Reproductive effects:
Not expected to be hazardous by OSHA/WHMIS criteria.

Teratogenicity:
Not expected to be hazardous by OSHA/WHMIS criteria.

Synergistic materials:
Not available.

12. Ecological Information

Ecotoxicity:
This material is not expected to be harmful to aquatic life.

13. Disposal Considerations

Disposal instructions:
This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

DOT:
Not regulated as dangerous goods.

TDG:
Not regulated as dangerous goods.

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance:
No

Section 311 hazardous chemical:
Yes

Section 313 hazardous chemical:
No

US federal regulations:
The components of this product are not subject to TSCA 12(b) Export Notification.

Canadian regulations:

Canada WHMIS Ingredient Disclosure: Threshold limits
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) 1 %
MICA (CAS 12001-26-2) 1 %
WHMIS status  Non-controlled

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Product list

- Toughrock® All-Purpose Lightweight Machine Mix Joint Compound (Gold) Q-987
- Toughrock® All-Purpose Lightweight READY MIX™ Joint Compound (Regular) Q-988
- Toughrock® All-Purpose Semi-Lightweight READY MIX™ Joint Compound Q-989
- Toughrock® All-Purpose Super White Semi-Lightweight READY MIX™ Joint Compound Q-990
- Private Brand Light Joint Compound Q-987

HMIS® ratings

- Health: 1
- Flammability: 0
- Physical hazard: 0

NFPA ratings

- Health: 1
- Flammability: 0
- Instability: 0

Disclaimer

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

Effective Date  14-Aug-2012
Prepared by  Georgia-Pacific LLC
404.652.5119

Material name: Toughrock® All-Purpose Semi-Lightweight READY MIX™ Joint Compounds
ID: GP-102  Effective date: 08-14-2012