SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier
Product Form: Mixture
Intended Use of the Product
Use of the Substance/Mixture: High temperature bonding agent, raw feed stock in refractories
Name, Address, and Telephone of the Responsible Party
Christy Minerals LLC
833 Booneslick Rd.
High Hill, MO 63350
T (636)585-2214
christyco.com

Emergency Telephone Number
Emergency Number: 1-800-535-5053 Domestic, 1-352-323-3500 International

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
GHS-US Classification
Carc. 1A   H350
STOT RE 1   H372

Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US)

Signal Word (GHS-US): Danger
Hazard Statements (GHS-US): H350 - May cause cancer (inhalation)
H372 - Causes damage to organs through prolonged or repeated exposure (inhalation)

Precautionary Statements (GHS-US): P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, respiratory protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P314 - Get medical advice and attention if you feel unwell.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other Hazards: Not available
Unknown Acute Toxicity (GHS-US): Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>GHS-US Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>(CAS No) 1332-58-7</td>
<td>60 - 100</td>
<td>Not classified</td>
</tr>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>20 - 30</td>
<td>Carc. 1A, H350 STOT RE 1, H372</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>(CAS No) 13463-67-7</td>
<td>0 - 2.75</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. If exposed or concerned: Get medical advice/attention

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes damage to organs through prolonged or repeated exposure (inhalation)

Inhalation: May cause cancer by inhalation. Dust from this product may cause irritation to the respiratory tract

Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Ingestion: If a large quantity has been ingested: gastrointestinal irritation

Chronic Symptoms: Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable

Explosion Hazard: Product is not explosive

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Not available
Other information: Do not allow run-off from fire fighting to enter drains or water courses.
Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Do not breathe dust. Avoid generating dust.
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.
Environmental Precautions
Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up
For Containment: Avoid generation of dust during clean-up of spills.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Avoid generation of dust during clean-up of spills.

Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Additional Hazards When Processed: Do not breathe dust. Avoid dust production. Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands, forearms, and other exposed areas thoroughly after handling.
Conditions for Safe Storage, Including Any Incompatibilities
Storage Conditions: Keep container closed when not in use.
Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Specific End Use(s)
High temperature bonding agent, raw feed stock in refractories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>OEL TWA (mg/m³)</th>
<th>ACGIH TWA (mg/m³)</th>
<th>NIOSH REL (TWA) (mg/m3)</th>
<th>US IDLH (mg/m3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>0.1 mg/m³</td>
<td>0.025 mg/m³</td>
<td>0.05 mg/m³</td>
<td>50 mg/m³</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Location</th>
<th>OEL TWA (mg/m³)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alberta</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Manitoba</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>New Brunswick</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Nunavut</td>
<td>0.3 mg/m³</td>
<td>(total mass)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>0.3 mg/m³</td>
<td>(total mass)</td>
</tr>
<tr>
<td>Ontario</td>
<td>0.10 mg/m³</td>
<td>(designated substance regulation)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>0.025 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Québec</td>
<td>0.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>0.05 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Yukon</td>
<td>300 particle/mL</td>
<td></td>
</tr>
</tbody>
</table>

### Titanium dioxide (13463-67-7)

- **Mexico**: OEL TWA (mg/m³) 10 mg/m³
- **Mexico**: OEL STEL (mg/m³) 20 mg/m³
- **USA ACGIH**: ACGIH TWA (mg/m³) 10 mg/m³
- **USA OSHA**: OSHA PEL (TWA) (mg/m3) 15 mg/m³
- **USA IDLH**: US IDLH (mg/m3) 5000 mg/m³
- **Alberta**: OEL TWA (mg/m³) 10 mg/m³
- **British Columbia**: OEL TWA (mg/m³) 3 mg/m³
- **Manitoba**: OEL TWA (mg/m³) 10 mg/m³
- **New Brunswick**: OEL TWA (mg/m³) 10 mg/m³
- **Newfoundland & Labrador**: OEL TWA (mg/m³) 10 mg/m³
- **Nova Scotia**: OEL TWA (mg/m³) 10 mg/m³
- **Nunavut**: OEL TWA (mg/m³) 10 mg/m³ (total mass)
- **Northwest Territories**: OEL TWA (mg/m³) 10 mg/m³ (total mass)
- **Ontario**: OEL TWA (mg/m³) 10 mg/m³
- **Prince Edward Island**: OEL TWA (mg/m³) 10 mg/m³
- **Québec**: VEMP (mg/m³) 10 mg/m³ (containing no Asbestos and <1% Crystalline silica)
- **Saskatchewan**: OEL STEL (mg/m³) 20 mg/m³
- **Saskatchewan**: OEL TWA (mg/m³) 10 mg/m³
- **Yukon**: OEL TWA (mg/m³) 20 mg/m³
- **Yukon**: OEL TWA (mg/m³) 10 mg/m³

### Kaolin (1332-58-7)

- **Mexico**: OEL TWA (mg/m³) 10 mg/m³

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<table>
<thead>
<tr>
<th>Country</th>
<th>Standard</th>
<th>Limit (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexico</td>
<td>OEL STEL</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>British Columbia</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³ (particulate matter containing no Asbestos and &lt;1% Crystalline silica)</td>
</tr>
<tr>
<td>Manitoba</td>
<td>OEL TWA (mg/m³)</td>
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</tr>
<tr>
<td>New Brunswick</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Nunavut</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³ (total mass)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³ (total mass)</td>
</tr>
<tr>
<td>Ontario</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³ (containing no Asbestos and &lt;1% Crystalline silica)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Québec</td>
<td>VEMP (mg/m³)</td>
<td>5 mg/m³ (containing no Asbestos and &lt;1% Crystalline silica)</td>
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<tr>
<td>Saskatchewan</td>
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<tr>
<td>Saskatchewan</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
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<tr>
<td>Yukon</td>
<td>OEL STEL (mg/m³)</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Exposure Controls

Appropriate Engineering Controls: Provide adequate ventilation to minimize dust concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.


Materials for Protective Clothing: Chemically resistant materials and fabrics

Hand Protection: Protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Solid
Appearance: White to grey, aggregate to powder, lumps to powder
Odor: Earthy

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Odor Threshold: Not available
pH: 6 - 8
Relative Evaporation Rate (butylacetate=1): Not available
Melting Point: > 1200 °C (>2192°F)
Freezing Point: Not available
Boiling Point: Not available
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20 °C: Not available
Relative Density: Not available
Specific Gravity: 1.5 - 2.5 g/cc
Solubility: Not available
Log Pow: Not available
Log Kow: Not available
Viscosity, Kinematic: Not available
Viscosity, Dynamic: Not available
Explosion Data – Sensitivity to Mechanical Impact: Not available
Explosion Data – Sensitivity to Static Discharge: Not available

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Stable at standard temperature and pressure.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Incompatible materials.
Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Products: Not available

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified pH: 6 - 8
Serious Eye Damage/Irritation: Not classified pH: 6 - 8
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: May cause cancer (inhalation).
Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure (inhalation).
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause cancer by inhalation. Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: If a large quantity has been ingested: intestinal blockage. Gastrointestinal irritation.

Chronic Symptoms: Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Oral Rat</th>
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</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td></td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td></td>
<td>&gt; 10000 mg/kg</td>
</tr>
</tbody>
</table>

IARC Group and National Toxicity Program (NTP) Status

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IARC Group</th>
<th>National Toxicity Program (NTP) Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>2B</td>
<td>1</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Not available

Persistence and Degradability


Persistence and Degradability: Not established.

Bioaccumulative Potential


Bioaccumulative Potential: Not established.

Mobility in Soil: Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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SECTION 14: TRANSPORT INFORMATION
In Accordance With ICAO/IATA/DOT/TDG
UN Number Not regulated for transport
UN Proper Shipping Name Not regulated for transport
Additional Information Not regulated for transport
Transport by Sea Not regulated for transport
Air Transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal Regulations
SARA Section 311/312 Hazard Classes
- Delayed (chronic) health hazard
- Immediate (acute) health hazard

<table>
<thead>
<tr>
<th>Chemical</th>
<th>SARA Section 311/312 Hazard Classes</th>
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</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>Delayed (chronic) health hazard</td>
</tr>
<tr>
<td></td>
<td>Immediate (acute) health hazard</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>Kaolin (1332-58-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

US State Regulations

<table>
<thead>
<tr>
<th>Chemical</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>WARNING: This product contains chemicals known to the State of California to cause cancer.</td>
</tr>
<tr>
<td>Titanium dioxide (13463-67-7)</td>
<td>WARNING: This product contains chemicals known to the State of California to cause cancer.</td>
</tr>
<tr>
<td>Kaolin (1332-58-7)</td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td></td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td></td>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

Canadian Regulations

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class D Division 2 Subdivision B - Toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

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Quartz (14808-60-7)
Listed on the Canadian DSL (Domestic Sustances List) inventory.
Listed on the Canadian Ingredient Disclosure List
WHMIS Classification: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Titanium dioxide (13463-67-7)
Listed on the Canadian DSL (Domestic Sustances List) inventory.
WHMIS Classification: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Kaolin (1332-58-7)
Listed on the Canadian DSL (Domestic Sustances List) inventory.
WHMIS Classification: Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Indication of Changes: 06/06/2013
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Carc. 1A</th>
<th>Carcinogenicity Category 1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

Party Responsible for the Preparation of This Document
Christy Minerals LLC
833 Booneslick Rd.
P.O. Box 159
High Hill, MO 63350
(636)585-2214

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