

SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Names: GlasRoc® Roof Board

Product Use: Coverboard and underlayment for low slope roofing systems.

Chemical Family: Calcium sulfate (gypsum) core boards with embedded fiberglass mats. Analyses of gypsum samples demonstrate that the concentration of crystalline silica as quartz is less than 0.025% (wt/wt %). This product contains no asbestos.

Supplier: CertainTeed Gypsum, Inc.
4300 W. Cypress St., Suite 500
Tampa, FL 33607 USA
Web Site: www.certainteed.com

CertainTeed Gypsum Canada, Inc.
2424 Lakeshore Road West,
Mississauga, Ontario, Canada
L5J 1K4
Web Site: www.certainteed.com

Phone Number: Professional: 800-233-8990
Consumer: 800-782-8777

24-hour Emergency Number: In case of an emergency call
Team-1 Environmental Services Inc.
1-800-32 SPILL; 1-800-327-7455 (24 hrs)

Section 2: Hazards Identification

NFPA (USA)	WHMIS (Canada)	Transport Symbol
	 Not Controlled	Not Regulated as a dangerous good

Emergency Overview: CertainTeed GlasRoc® Roof Board products do not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate.

Appearance, Color and Odor: Solid composite article. Roof boards with white core, odorless.

USA: While this product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Canada: While this product is not controlled under WHMIS, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Potential Health Effects: **ACUTE (short term): see Section 8 for exposure controls**

Relevant Route(s) of Exposure: Inhalation, Skin contact, Eye contact

Inhalation: High concentrations of dust from cutting, sawing, sanding or machining, may cause coughing and mild, temporary irritation following a short-term exposure. Long-term inhalation exposure to dusts can have respiratory effects (see Chronic health effects below).

Ingestion: Component substances are not acutely toxic. Swallowing particulates may cause gastrointestinal problems.

Skin: Dusts of this product may cause irritation.

Eye: Direct contact with the eyes may cause temporary irritation as a foreign object in the eye.

Section 2: Hazards Identification, continued

CHRONIC (long term): see Section 11 for additional toxicological data

Heavy prolonged industrial exposure to high airborne concentrations of dust may cause impaired lung function. Chronic bronchitis, pulmonary fibrosis and respiratory tract lesions have also been reported with high level inhaled dust exposures. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis.

Silicosis usually develops gradually over 20 years or more of exposure. Particles with diameters less than 1 micrometer are considered most hazardous (respirable size). The amount of respirable-size silica generated from cutting and sanding operations will vary.

The International Agency for Research on Cancer (IARC) has concluded that respirable crystalline silica in the form of quartz from occupational sources should be classified as carcinogenic to humans (Group 1).

Medical Conditions Aggravated by Exposure:

Skin contact may aggravate an existing dermatitis.

Interactions With Other Chemicals:

Tobacco smoking in combination with long-term high dust exposures may increase both smoking and dust-related pulmonary health problems. Simultaneous exposure to known carcinogens can increase the carcinogenicity of crystalline silica.

Potential Environmental Effects:

No adverse effects known.

Section 3: Composition / Information on Ingredients

Hazardous Ingredients:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Wt. %</u>
Calcium sulfate	10101-41-4	89-96
Fiberglass Mat	65997-17-3	1-2
Crystalline silica (total quartz)	14808-60-7	0.1 - 1

Note: See Section 8 of this SDS for exposure limit data for these ingredients.

Section 4: First Aid Measures

Inhalation:

If high airborne concentrations of dust are present, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). If symptoms develop, remove source of contamination or move victim to fresh air. Obtain medical advice.

Eye Contact:

Do not allow victim to rub eyes. Let the eyes water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelids open. If irritation persists, immediately obtain medical attention. DO NOT attempt to manually remove anything stuck to the eye.

Skin Contact:

No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Ingestion:

If irritation or discomfort occurs, obtain medical attention immediately.

Section 5: Fire Fighting Measures

Flammable Properties: Gypsum core and fiberglass mat facers are non-flammable and do not support combustion.

Suitable extinguishing Media: Use water or other extinguishing media appropriate for the surrounding fire.

Unsuitable extinguishing Media: Not available

Explosion Data:

Sensitivity to Mechanical Impact: Not sensitive

Sensitivity to Static Discharge: Not sensitive

Specific Hazards arising from the Chemical: Calcium sulfate may decompose into corrosive calcium oxide and oxides of sulfur at about 1450°C (2642°F). If involved in a fire, combustion is expected to produce carbon dioxide, carbon monoxide, irritating, and potentially toxic, fumes and smoke.

Protective Equipment and precautions for firefighters: As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance.

NFPA

Health: 1
Flammability: 0
Instability: 0

Section 6: Accidental Release Measures

Personal Precautions: Wear proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Prevent material from contaminating soil and from entering sewers or waterways.

Methods for Containment: No special methods required.

Methods for Clean-up: Scoop or shovel spilled material into an appropriate waste container for disposal. Collect all spilled material for proper disposal. Dispose in accordance with federal, state and local regulations.

Other Information: Not available

Section 7: Handling and Storage

Handling: Avoid creating and breathing dust from this product. Avoid dust exposure to eyes, skin and clothing. Minimize dust generation and accumulation. Wear protective glasses and gloves. If exposure limits are exceeded wear appropriate respiratory protection. (See Section 8)

Storage: KEEP OUT OF REACH OF CHILDREN. Store product flat. Protect from water and moisture. See Section 13 for disposal considerations.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) (mg/m³)</u>	<u>U.S. OSHA PEL (8-hr. TWA) (mg/m³)</u>	<u>Ontario (Canada) TWAEV (mg/m³)</u>
Calcium sulfate	10 (inhalable fraction)	15 (total dust); 5 (respirable fraction)	10 (inhalable fraction)
Fiberglass Mat – Synthetic Vitreous Fibers	5 (inhalable) 1 f/cc (respirable fibers)	15 (total dust); 5 (respirable fraction)	5 (inhalable) 1 f/cc (respirable fibers)
Crystalline silica	0.025 (respirable)	quartz (total dust): 30 mg/m ³ / (%SiO ₂ + 2) quartz (respirable): 10 mg/m ³ / (%SiO ₂ + 2)	0.1 (respirable) Designated Substance Regulation
Particles Not Otherwise Specified	10 (inhalable particles); 3 (respirable)	15 (total dust); 5 (respirable fraction)	10 (inhalable particles); 3 (respirable)

Exposure Controls

Engineering Controls: General ventilation is adequate for application of product in its original form. During cutting, sanding operations, monitor dust concentrations in air and provide local exhaust ventilation when any exposure guideline is exceeded.

Personal Protection:

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear protective gloves to prevent irritation to the skin.

Respiratory Protection: When dust concentrations in air exceed the occupational exposure guidelines, always take the following precautions:

- Wear a NIOSH approved particulate respirator equipped with an N95, R95 or P95 filter (see NIOSH recommendations for details).
- Maintain adequate ventilation and air circulation.
- Warn others in the area.
- Use a NIOSH approved respirator when dust levels exceed any of the exposure guidelines listed in the table above.

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Canadian Standards Association (CSA) Standard Z94.4-02 must be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Measures: Launder contaminated clothing before re-wearing, or discard. Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

Section 9: Physical and Chemical Properties

Physical State:	Solid	Flash Point & method:	Not applicable
Appearance, Color and Odor:	Boards with white core, odorless	Autoignition Temperature:	Not applicable
Odor Threshold:	Not applicable	Flammability Limits in Air:	Not applicable
pH:	7 – 9 (in aqueous slurry)	Vapor Pressure:	Not available
Relative density(water = 1) :	2.30-2.37	Vapor Density (Air = 1):	Not available
Partition coefficient:	Not available	Evaporation Rate:	Not available
Solubility:	0.2% (approximate)	Boiling Point/Range:	Not applicable
Viscosity:	Not available	Melting Point:	Not applicable
Decomposition Temperature:	1450°C (2642°F)		

Section 10: Stability and Reactivity

Chemical Stability:	Stable.
Conditions to Avoid:	Not available
Incompatible Materials:	Gypsum is a stable, unreactive material under normal workplace conditions. Hazardous reactions may occur with some highly reactive materials or at high temperatures.
Hazardous Decomposition Products:	Gypsum may decompose to form calcium oxide (CaO) and sulfur dioxide (SO ₂) if product is exposed to extreme heat 1450°C (2642°F). Thermal decomposition products may include carbon monoxide, carbon dioxide and smoke.
Possibility of Hazardous Reactions:	None known

Section 11: Toxicological Information

Acute Toxicity Data

Acute Toxicology data is not available for this article.

Chronic Toxicity Data

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>
Calcium sulfate	Not listed	Not listed	Not listed
Fiberglass Mat	A4	Group 3	Not listed
Crystalline silica (quartz -respirable size)	A2	Group 1	Known

ACGIH: (American Conference of Governmental Industrial Hygienists)

A4: Not Classifiable as a Human Carcinogen

A2: Suspected human carcinogen

IARC: (International Agency for Research on Cancer)

Group 1: The agent is carcinogenic to humans

Group 3: The agent is not classifiable as to its carcinogenicity in humans.

NTP: (National Toxicology Program)

Known – Known to be a human carcinogen

Irritation:	Inhaling high concentrations of dust, during installation of product, may cause coughing and mild, temporary irritation. Dust from this product is irritating to the eyes as a foreign object. Contact with dust from this product can be irritating to the skin.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable
Genetic Effects:	Not applicable
Reproductive Effects:	Not applicable
Developmental Effects:	Not applicable
Other Adverse Effects:	Not applicable
Target Organ Effects:	Lungs (with exposure to airborne dust).

Section 12: Ecological Information

Ecotoxicity:	Not applicable
Persistence/Degradability:	Not available
Bioaccumulation/Accumulation:	Not applicable
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method: Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.

United States: Dispose of in accordance with local, state and federal laws and regulations.
RCRA Waste Codes: Not applicable

Canada: Dispose of in accordance with local, provincial and federal laws and regulations.

Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR): Not regulated as a dangerous good for transport.

Canadian Transportation of Dangerous Goods (TDG): Not regulated as a dangerous good for transport.

ADR/RID: Not regulated as a dangerous good for transport.

IMDG: Not regulated as a dangerous good for transport.

Marine Pollutants: Not applicable

ICAO/IATA: Not regulated as a dangerous good for transport.

Section 15: Regulatory Information

USA

TSCA Status: All ingredients in the product are listed on the TSCA inventory.

SARA Title III

Sec. 302/304: None

Sec. 311/312: None

Sec. 313: None

CERCLA RQ: None

California Prop 65: This product may contain a substance known to the State of California to cause cancer [Crystalline silica – airborne particles of respirable size].

Canada

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

WHMIS Status: Not controlled
(for workplace exposures) As sold, this product is considered a manufactured article and is not controlled by WHMIS. In some workplaces, operations with this product may lead to generation of airborne dust. Exposure to airborne dusts may have occupational health hazards and is controlled under WHMIS.

New Substance Notification Regulations: All substances in this product are listed on Canada's Domestic Substances List (DSL).

National Pollutant Release Inventory: There are no NPRI reportable substances in this product.

Section 16: Other Information

Revision date: March 24, 2011

Manufacturer's Disclaimer: Information listed is believed to be accurate but not warranted or guaranteed.

Prepared by: LEHDER Environmental Services Limited
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