

# Safety Data Sheet

**Boral EnviroPro™**

Date Prepared: 02/11/2021

Supersedes Date: New

Version 1.0



## SECTION 1: IDENTIFICATION

### 1.1 Product Identifier

**Product Name:** Boral EnviroPro™ Roofing Component

### 1.2 Intended Use of the Product

Building Material—Roofing Cut Piece Accessory

### 1.3 Name, Address, and Telephone Number of the Responsible Party

BORAL ROOFING LLC

200 Mansell Court East, Suite 305

Roswell, GA 30076

(770) 645-4500

(949) 585-8200

### 1.4 Emergency Telephone Number

(949) 981-3319

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1 Classification of the Substance or Mixture (GHS-US)

This product is an article as defined in the OSHA Hazard Communication Standard [29 CFR 1910.1200(c)] and is exempt from regulatory requirements when handled as a manufactured item. Cutting this product without wet sawing or ventilation controls is permissible due to low crystalline silica content. This SDS contains additional information related to dust hazards and OSHA Respirable Crystalline Silica Standard compliance.

Skin Irritation 2

Eye Irritation 2B

STOT-SE (Single Exposure) 3 (Respiratory Irritation)

STOT-RE (Repeated Exposure) 2 (Respiratory Illness)

Carcinogenicity 1A

### 2.2 Label Elements (GHS-US)

**Hazard Pictograms:**



**Signal Word:**

- Danger

**Hazard Statements:**

- Causes skin irritation (H315)
- Causes eye irritation (H320)
- May cause respiratory irritation (H335)
- May cause cancer (H350)
- May cause damage to respiratory system through prolonged or repeated exposure (H373)

**Precautionary and**

**Response Statements:**

- Obtain, read, and follow all safety instructions before use (P203)
- Avoid breathing dust; in case of inadequate ventilation, wear respiratory protection (P261) (P284)
- Wash hands and exposed skin thoroughly after handling (P264)
- Cut/grind/chip product only outdoors or in a well-ventilated area (P271)
- Wear protective gloves, protective clothing, and eye protection (P280)
- IF ON SKIN: Wash with plenty of water (P302) (P352)
- IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304) (P340)
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing until pain or irritation subsides. (P305) (P351) (P338)
- IF exposed or concerned, get medical advice (P318)
- Get medical help if you feel unwell (P319)

- If skin irritation occurs or eye irritation persists: Get medical help (P332) (P337) (P317)
- Take off contaminated clothing and wash it before reuse (P362) (P364)
- Dispose in accordance with local/regional/national/international regulations (P501)

### 2.3 Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

### 2.4 California Proposition 65:



**WARNING:** Cancer and reproductive harm—www.P65Warnings.ca.gov

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Description of Product

Concrete matrix article.

### 3.2 Mixture Ingredients and Hazard Classification

Substances and hazard classification based on dust composition.

Ingredient	Product Identifier (CAS No.)	% (w/w)	Hazard Classification (GHS-US)
Calcium Carbonate	1317-65-3	< 85	<ul style="list-style-type: none"> <li>• Skin Irritation 2, H316</li> <li>• Eye Irritation 2B, H320</li> <li>• STOT-SE (Single Exposure) 3 (Respiratory), H335</li> </ul>
Portland cement (cured)	65997-15-1	12 – 40	<ul style="list-style-type: none"> <li>• Skin Irritation 2, H316</li> <li>• Eye Irritation 2B, H320</li> <li>• STOT-SE (Single Exposure) 3 (Respiratory), H335</li> </ul>
Quartz	14808-60-7	< 5	<ul style="list-style-type: none"> <li>• Carcinogenicity 1A, H350 (see Section 11.3)</li> <li>• STOT-RE (Repeated Exposure) 2 (Respiratory), H373</li> </ul>
Silica, amorphous	7631-86-9	< 4	<ul style="list-style-type: none"> <li>• Not classified</li> </ul>
Iron oxide	1309-37-1	≤ 3	<ul style="list-style-type: none"> <li>• Not classified</li> </ul>

*Note:* This product contains additional not classified substances at low concentrations that do not contribute to the hazards of this product.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. Any person who is experiencing symptoms of injury or illness should be moved to a comfortable area with fresh air, and the label or SDS of this product reviewed.

**Inhalation:** If symptoms of dust exposure (respiratory irritation) occur, move the person to fresh air. Provide drinking water, if conscious, to flush mouth and irrigate upper respiratory tract. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

**Eye Contact:** If injury is due to a projectile, seek immediate medical attention. If the person's symptom is eye irritation due to dust exposure, careful flushing with clean water should continue for at least 15 minutes. If contact lenses are present, they should be removed after flushing. Flushing should continue until irritation subsides. Medical attention should be obtained if irritation persists.

**Skin:** Injuries to skin due to abrasion, laceration, or crushing should be treated by flushing with clean water, followed by first aid (application of disinfectant and bandage). If the injury is more extensive or irritation and pain persists, medical attention should be sought.

### 4.2 Most Important Symptoms and Effects—Both Acute and Delayed

**General:** The most important symptoms and effects from exposure to this product's dust is respiratory irritation and respiratory system chronic illness if significant exposures occur repeatedly.

**Inhalation:** The immediate acute response to dust inhalation is respiratory system irritation. Upon repeated high levels of dust exposure, crystalline silica content of the dust may cause delayed or chronic respiratory illnesses, including silicosis and cancer.

**Eye Contact:** Exposures of the eyes to particles and dust may result in irritation, pain, redness, and blurred vision, which is usually temporary.

**Skin Contact:** Other than abrasion and irritation, skin contact does not cause delayed or chronic symptoms.

#### 4.3 Indication of Immediate Medical Attention and Special Treatment

Any time symptoms of eye irritation or respiratory irritation persist, medical attention should be obtained.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire. Finished product is not combustible.

#### 5.2 Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** Not combustible.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions are not expected to occur under normal conditions.

#### 5.3 Advice for Firefighters

Not applicable.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

**General Measures:** Do not breathe dust. Do not get in eyes, on skin, or on clothing.

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Not applicable.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip clean-up crew with proper protection.

**Emergency Procedures:** Ventilate area or use wet methods if dust is generated.

#### 6.2 Environmental Precautions

Reuse product as appropriate to avoid disposal.

#### 6.3 Methods and Material for Containment and Clean-Up

**Containment:** Contain and collect as any solid. Avoid actions that cause dust to become airborne. Do not breathe dust, and do not allow large quantities of dust to contact skin.

#### 6.4 Reference to Other Sections

See Section 8. Exposure Controls and Personal Protection. For further disposal information, refer to Section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for Safe Handling

**Additional Hazards when Processed:** Cutting, chipping, or grinding crystalline silica-bearing materials will release particulate matter and respirable crystalline silica. Use appropriate dust controls and Personal Protective Equipment (PPE) described in Section 8.

**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.

#### 7.2 Conditions for Safe Storage, Including any Incompatibilities

Not applicable.

#### 7.3 Specific End-Use(s)

No applicable limits.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Exposure Limits

The following exposure limits are based on a time-weighted full-shift exposure, unless otherwise noted.

Ingredient	OSHA PEL <sup>(1)</sup> (mg/m <sup>3</sup> )	ACGIH-TLV <sup>(2)</sup> (mg/m <sup>3</sup> )	Other <sup>(3)</sup> (mg/m <sup>3</sup> )
Calcium Carbonate	15 (total) 5 (respirable)	10 (total) 3 (respirable)	10 (total) 5 (respirable)
Portland cement	15 (total) 5 (respirable)	1 (respirable fraction containing no asbestos and < 1% crystalline silica)	10 (total) 5 (respirable)
Quartz (crystalline silica) <sup>(4)</sup>	50 µg/m <sup>3</sup> [0.05 mg/m <sup>3</sup> (respirable)]	0.025 (respirable)	0.05 (respirable)
Silica, amorphous	80 mg/m <sup>3</sup> ÷ %SiO <sub>2</sub>	10 (total) 3 (respirable)	6 (total)

Ingredient	OSHA PEL <sup>(1)</sup> (mg/m <sup>3</sup> )	ACGIH-TLV <sup>(2)</sup> (mg/m <sup>3</sup> )	Other <sup>(3)</sup> (mg/m <sup>3</sup> )
Iron oxide	<u>Fume</u> : 10 (total); <u>Particulate</u> : 15 (total); 5 (respirable)	5 (respirable)	5 (total)
<i>fn</i> <sup>(1)</sup> OSHA PEL (Permissible Exposure Limits at 29 CFR 1910.1000) <i>fn</i> <sup>(2)</sup> ACGIH-TLV (American Conference of Governmental Industrial Hygienists-Threshold Limit Values 2021) <i>fn</i> <sup>(3)</sup> NIOSH REL (National Institute for Occupational Safety & Health Recommended Exposure Limit) <i>fn</i> <sup>(4)</sup> The amount of airborne respirable crystalline silica in representative samples has been determined. (See Section 8.2.)			

### 8.2 Representative Airborne Exposure Objective Data

Representative occupational exposure concentration when cutting and installing this product according to instructions and conditions in the Boral Roofing LLC Objective Data Report do not exceed the OSHA Respirable Crystalline Silica (RCS) Standard Permissible Exposure Limit (PEL) of 0.050 mg/m<sup>3</sup> (50 µg/m<sup>3</sup>) on an average 8-hour time-weighted-average. (See Boral Roofing LLC Objective Data Report.)

### 8.3 Administrative and Engineering Controls

The OSHA RCS Standard for Construction [29 CFR 1926.1153] requires the employer to have an Exposure Control Plan including a Competent Person and training for employees. Engineering controls, including wet saws and local ventilation are not required when product is cut and installed according to instructions and conditions in the Boral Roofing LLC Objective Data Report.

### 8.4 Personal Protective Equipment

Protective goggles or safety glasses, and gloves are recommended to prevent injury due to projectiles and abrasive materials/dust. Respiratory protection is recommended if dust is present when cutting/grinding/chipping product. Such use is voluntary with this product if used according to Objective Data Report conditions.



**Hand Protection:** Protective gloves as appropriate to prevent abrasion and hand injuries.

**Eye and/or Face Protection:** Approved safety glasses, goggles, and/or face-shield.

**Skin and Body Protection:** Appropriate work clothing and footwear should be worn.

**Respiratory Protection:** NIOSH-approved respiratory protection should be worn in accordance with the OSHA Respiratory Protection Standard [29 CFR 1910.134] if respirator use is mandatory when the PEL may be exceeded or exposure conditions exceed the Objective Data Report.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

**Physical State:** Solid.

**Appearance:** Solid. Tiles come in a wide range of colors.

**Odor:** Essentially odorless.

**Odor Threshold:** No data.

**pH:** No data.

**Evaporation Rate:** Not applicable.

**Melting Point:** Not applicable.

**Freezing Point:** Not applicable.

**Boiling Point:** Not applicable.

**Flashpoint:** No data.

**Auto-ignition Temperature:** No data.

**Decomposition Temperature:** No data.

**Flammability (solid, gas):** No data.

**Lower Flammable Limit:** No data.

**Upper Flammable Limit:** No data.

**Vapor Pressure:** No data.

**Relative Vapor Density at 20° C:** No data.

**Relative Density:** No data.

**Specific Gravity:** 2.6

**Solubility:** Negligible in water.

**Partition Coefficient—N-Octanol/Water:** Not applicable.

**Viscosity:** Not applicable.

**Explosion Data—Sensitivity to Mechanical Impact:** Not applicable.

**Explosion Data—Sensitivity to Static Discharge:** Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Hazardous reactions are not expected to occur under normal conditions.

### 10.2 Chemical Stability

Stable.

### 10.3 Possibility of Hazardous Reactions

Not applicable.

#### 10.4 Conditions to Avoid

Not applicable.

#### 10.5 Incompatible Materials

Not applicable.

#### 10.6 Hazardous Decomposition Products

Not applicable.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Likely Routes of Exposure

**Skin Contact:** Product is abrasive and may irritate unprotected skin.

**Eye Contact:** When product is shaped or cut, chips or dust may enter unprotected eyes and cause injury or irritation.

**Inhalation:** When product is cut or chipped, respirable dust may be generated and if inhaled can cause respiratory system irritation. Prolonged or repeated inhalation exposure may cause chronic illness.

**Ingestion:** Not expected to be an exposure route of concern.

#### 11.2 Symptoms Related to Physical, Chemical, and Toxicological Characteristics

**Immediate Effects:** Irritation of skin, eyes, and respiratory tract due to abrasion or dust inhalation will produce immediate discomfort, and first aid should be provided.

**Delayed and Chronic Effects:** Inhalation of dust on a prolonged or repeated basis may result in chronic lung disease or silicosis and may also result in lung cancer, chronic obstructive pulmonary disease (COPD), or kidney disease.

#### 11.3 Numerical Measures of Toxicity

OSHA has determined that “the lifetime excess mortality risks (for lung cancer, NMRD and silicosis, and renal disease) and cumulative risk (silicosis morbidity) posed to workers exposed to respirable crystalline silica over a working life represent significant risks that warrant mitigation, and these risks will be substantially reduced at the revised PEL of 50 mg/m<sup>3</sup> respirable crystalline silica.” 81 Fed.Reg. 16285, 16304 (3/25/2016). This product, when used as instructed and consistent with Boral Roofing LLC Objective Data Report does not generate respirable crystalline silica dust concentrations exceeding the PEL.

#### 11.4 Carcinogenicity

The ingredient quartz, also known as crystalline silica, has been determined to be carcinogenic by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP). Please see section 11.3 regarding OSHA’s Permissible Exposure Limit.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No additional information available.

#### 12.2 Persistence and Degradability

Not available.

#### 12.3 Bioaccumulative Potential

Not available.

#### 12.4 Mobility in Soil

Not available.

#### 12.5 Other Adverse Effects

Not available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods

**Waste Disposal Recommendations:** Scrap material should be re-used or recycled. Waste is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) (40 CFR 261). Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 In Accordance with DOT

Not regulated for transport.

#### 14.2 In Accordance with IMDG

Not regulated for transport.

#### 14.3 In Accordance with IATA

Not regulated for transport.

#### 14.4 In Accordance with TDG

Not regulated for transport.

### SECTION 15: REGULATORY INFORMATION

#### 15.1 U.S. Federal Regulations

##### SARA Section 311/312 Hazard Classes

Exempt article [40 CFR 370.13(b)].

##### SARA Section 313 Emission Reporting

This product may contain constituents listed under SARA (Title III) Section 313 but not in amounts requiring supplier notification under 40 CFR Part 372, Subpart C.

##### TSCA Inventory

All constituents are included on the Toxic Substances Control Act Chemical Inventory (40 CFR 720).

#### 15.2 U.S. State Regulations

##### State Right-to-Know Laws

This product, as an article, is exempt from hazardous substance inventory reporting under the Massachusetts, New Jersey, and Pennsylvania right-to-know laws.

##### California Proposition 65—Warning Required [California Health and Safety Code § 25249.6]

This regulation requires a warning at any detectable level of exposure. Refer to Section 2.4.

#### 15.3 Canadian WHMIS Regulations

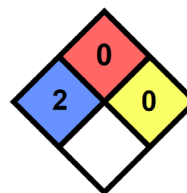
As a manufactured article, this product is excluded from WHMIS 2015 regulation.

#### 15.4 Other: HMIS and NFPA

HMIS:

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION:		

NFPA:



### SECTION 16: OTHER INFORMATION

#### Party Responsible for Preparation of this Document

BORAL ROOFING LLC  
(770) 645-4500  
(949) 585-8200

#### Limitations

The information and recommendations set forth herein are based on data we have in our possession, and we have reason to believe is accurate. It is, however, the user's responsibility to determine the safety, toxicity, or suitability for his/her own use of the herein described product. Because the actions by others is beyond our control, Boral Roofing LLC. makes no warranty expressed or implied regarding accuracy of the data or the results to be obtained from the use thereof.

#### Revision History:

Version 1.0: 02/11/2021