



Safety Data Sheet

Perma Edge Industries, LLC

1 IDENTIFICATION

Product Identifier:	Perma Paver Edging
Manufacturer Name:	Perma Edge Industries, LLC
Manufacturer Address:	800 Scholz Dr., Vandalia, Ohio 45377
Manufacturer Phone Number:	(844)-4 EDGING (433-4464)
Manufacturer Email :	info@perma-edge.com
Common use:	Paver edge restraint

2 HAZARD IDENTIFICATION

This product is considered a “hazardous chemical” by the OSHA Hazard Communication Standard.

Hazardous Classifications: *Category 1: Skin Corrosion/Irritation, Eye Damage, Skin Sensitization, Carcinogenic when Inhaled*

Category 2: Eye Irritation

Signal Word: Danger



Hazard Symbols:

Precautionary Statements:

Read instructions before use.

Do not inhale or ingest.

Wash areas of contact and clothing after use.

Wear eye protection along with protective clothing.

If swallowed, rinse mouth but do not induce vomiting.

If in eyes, rinse immediately with water.

If any irritation occurs, seek medical advice.

Dispose of contents according to local/state/federal regulation.

Other Hazards:

Trace amounts of chemicals may be detected, such as crystalline silica, silicon dioxide, calcium oxide, magnesium oxide, sodium sulfate, chromium compounds, and nickel compounds. The chemicals contained are below the standard exposure limits.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Perma Edge paver edging. This substance is a mixture of multiple chemicals.

Chemical Composition:

Ingredient Name	% of Total Product	CAS Number
Portland Cement Clinker	50%-80%	65997-15-1
Gypsum	0%-10%	7778-18-9
Limestone	0%-10%	1317-65-3
Granulated Blast Furnace Slag	0%-10%	65996-69-2
Kiln Bag House Dust	0%-5%	69012-63-1
Lime Kiln Dust	0%-5%	1305-78-8
Quartz (Crystalline Silica)	0%-0.1%	14808-60-7
Hexavalent Chromium	0%-0.009% (trace amounts found in cement)	18450-29-9
Calcium Oxide	0%-2%	1305-78-8
Silica Sand	0%-30%	N/A
Silica Gravel	0%-30%	N/A

Trade Secret Status: The exact chemical composition is not shown because the manufacturer claimed a trade secret for this product.

4 FIRST-AID MEASURES

Immediately notify the medical professional or first responder are aware of the material involved. If you are a first responder, do not take action without suitable knowledge and training. Always seek medical attention and/or advice. The correct measures and symptoms, due to eye contact, skin contact, ingestion, and inhalation, are listed below.

Eye Contact: Immediately rinse eyes and eyelids with water. If irritation persists, seek medical attention. May cause serious eye damage. Symptoms include watering eyes, pain, and redness.

Skin Contact:	Immediately rinse skin with water. Remove any contaminated clothing. If the material is not dried completely when in contact, prompt attention is required to avoid any skin absorption. If any rash, burns, or irritation occurs, seek medical attention. May cause allergic skin reaction, discomfort, rash and burns. These symptoms increase with increased exposure, although symptoms may not occur until hours after exposure. For this reason, prompt rinsing and being aware of exposure to this material is important.
Ingestion:	Immediately rinse mouth with water but do not swallow. Do not ingest. Do not induce vomiting unless directed to by a medical professional. Victim of accidental ingestion should be moved to a position of rest in fresh air with drinking water. Do not drink water if it will cause vomiting. May cause burns to throat, mouth, stomach. If this occurs seek medical attention. Symptoms include pain in the area affected. (mouth, throat, stomach, nose)
Inhalation:	Move victim to fresh air and a comfortable rest position. Call physician or poison center. If individual is not breathing or has irregular breathing, contact medical professional immediately to receive assistance from medical professionals. May cause respiratory infection and even permanent lung damage. Symptoms include pain in the lungs, coughing, and respiratory tract infection.

5 FIRE-FIGHTING MEASURES

Flammability:	This product is non-flammable.
Extinguishing Measure:	Use a suitable extinguishing agent for the surrounding fire.
Hazardous Decomposition Chemicals:	Thermal decomposition will result in the release of carbon dioxide, carbon monoxide, sulfur oxide and metal oxides.
Special Fire-Fighting Instructions:	Wear breathing apparatus to prevent inhalation. Do not attempt to extinguish fire without appropriate training.

6 ACCIDENTAL RELEASE MEASURES

If the product is spilled or released into the air via dust, take the recommended precautions below.

Environmental Precautions:	Avoid releasing this product to the environment. If released into any water systems, contact the appropriate local/state/federal official to report the spill.
Personal Precautions:	Avoid breathing any of the material and/or material dust. If exposure is too great, evacuate area and contact emergency personnel.
Emergency Responder Precaution:	Avoid breathing any of the material and/or material dust. Evacuate area if necessary. Try to provide adequate ventilation to the affected area. Wear appropriate personal protective equipment.
Cleanup Procedure:	If spill is small, use appropriate cleaning equipment to contain product and dispose of according to local/state/federal regulations. If spill is too large to contain on your own, contact emergency personnel and evacuate the area.

7 HANDLING AND STORAGE

Precautions:	Wear appropriate personal protective equipment such as protective clothing, eyewear, and gloves. Minimize dust when handling. Do not ingest.
Safe Storage Recommendations:	Keep container tightly closed and in a well ventilated area. Eating, drinking, and smoking should be prohibited in areas where this material is handled. Make sure to store and handle this product according to all current local/state/federal regulations.

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical	Exposure Limits		
	OSHA PEL (4/26/13)	NIOSH REL (4/26/13)	ACGIH (2015)
Portland Cement Clinker	5 mg/m ³	5 mg/m ³	1 mg/m ³
Crystalline Silica	10 mg/m ³	.05 mg/m ³	.025 mg/m ³
Silica	5 mg/m ³	5 mg/m ³	10 mg/m ³
Limestone	5 mg/m ³	5 mg/m ³	10 mg/m ³
Gypsum	5 mg/m ³	5 mg/m ³	10 mg/m ³
Dust (Regulated Particles)	5 mg/m ³	N/A	3 mg/m ³
Aluminium Oxide	5 mg/m ³	5 mg/m ³	1 mg/m ³
Calcium Oxide	2 mg/m ³	2 mg/m ³	2 mg/m ³
Diiron Trioxide	10 mg/m ³	N/A	5 mg/m ³
Magnesium Oxide	10 mg/m ³	N/A	10 mg/m ³

Engineering Controls:

Use only in adequately ventilated area. Prevent creating dust, this may lead to ingestion and/or inhalation. Make sure all ventilation systems are in accordance with all local/state/federal regulations.

Personal Protection:

Wear appropriate protective eyewear to prevent dust from entering into the eye from the front and/or the side of the eye.

Wear appropriate chemical-resistant gloves to prevent rash, burns, or any other skin irritation.

Wear appropriate clothing that will protect parts of the body that have the most exposure to the chemical. Also, make sure this clothing is chemical resistant. This is often important for clothing items such as boots, pants, and shirts.

Wear a filter respirator if necessary. Selection of respirator wear should be based on exposure levels, hazard levels, and the protection factor for the respirator in use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical/Chemical Properties	Perma Edge
Appearance	Gray
Explosive Limits	N/A
Odor	Odorless
Vapor Pressure	N/A
pH	Not available
Relative Density	Not available
Melting Point	Not available
Freezing Point	Not available
Solubility	Slightly Soluble in Water
Initial Boiling Point	Not available
Boiling Range	Not available
Flammability	Not Flammable
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	N/A

10 STABILITY AND REACTIVITY

Reactivity:	Reacts slowly with water, releasing heat and producing a strong alkaline solution until reaction has ended.
Chemical Stability:	This product is chemically stable.
Hazardous Reactions:	Under normal, appropriate conditions for use and storage, this product will not yield any hazardous reactions.
Incompatible Materials:	Oxidizing materials, acids, aluminum salt, ammonium salt.
Conditions to Avoid:	This product may react with oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen trifluoride that may cause fire and/or explosions. This product may also react violently with acids, causing an increase in heat.
Hazardous Decomposition Products:	No hazardous decomposition products will be produced under normal, appropriate storage conditions.

11 TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	This product may be exposed by route of skin contact, eye contact, inhalation and ingestion.
Potential Health Effects:	May cause serious eye damage. May cause respiratory infection. May cause a skin reaction/irritation. May cause burns to mouth, throat and stomach.
Symptoms:	Symptoms may include eye pain, eye watering and redness, coughing, mouth/throat/stomach irritation and/or pain, skin blistering, skin burns.
Classified Carcinogens:	Quartz (Crystalline Silica) is known to be a human carcinogen. Quartz may affect the respiratory tract and kidneys through ingestion or inhalation.

12 ECOLOGICAL INFORMATION

No data available.

13 DISPOSAL CONSIDERATIONS

Disposal Recommendations:	Do not pour in drain or sewer. Dispose of according to local/state/federal regulations.
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14 TRANSPORT INFORMATION

Transport Recommendations:	Person transporting material should be informed of the product and aware of the hazardous possibilities if this product is spilled and/or inhaled. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Regulated. DOT Classification: Not Regulated. IATA: Not Regulated. IMDG: Not Regulated. Environmental Hazard: None.
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