




SAFETY DATA SHEET

1. Identification

Material Name:	C-120 Slurry Underlayment
Material:	
Recommended Use and Restriction on Use	
Recommended Use:	Not Known
Restrictions on Use:	
Manufacturer/Importer/Supplier/Distributor Information	Environmental Coatings LLC 4702 E Virginia Street Mesa, Arizona 85215 US
Contact Person:	Chemtrec
Telephone:	480-984-7608
Emergency Telephone Number:	1-800-424-9300

2. Hazard Identification

Hazard Classification	
Health Hazards	May cause mechanical irritation to skin, eyes, and respiratory tract. Crystalline silica is present in the mixture and is considered a carcinogen.
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Carcinogenicity	Category 1A
Specific Target Organ Toxicity – Single Exposure (Respiratory tract irritation)	Category 3
Specific Target Organ Toxicity – Repeated Exposure	Category 1
Label Elements	
Hazard Symbol:	
Signal Word:	Danger
Hazard Statements:	May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation. Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary Statements:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not eat, drink or smoke when using this product. Wear protective gloves and safety glasses or goggles. In case of inadequate ventilation wear respiratory protection.
Prevention:	Use outdoors in a well ventilated area. Wash any exposed body parts thoroughly after handling. Contaminated clothing must not be allowed out of the workplace.



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Response:	If exposed or concerned: get medical advice. If on skin: wash with plenty of water. Take off contaminated clothing and wash it before reuse. If in eyes: rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. If inhaled: remove person to fresh air and keep comfortable for breathing. If swallowed: rinse mouth. Do not induce vomiting.
Storage:	Store locked up. Engulfment hazard: to prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains cement without an effective procedure for assuring safety. Store in a well ventilated area. Keep container tightly closed.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

3. Composition/Information on Ingredients

Mixtures			
	Chemical Identity	CAS number	Content in percent (%)*
	Crystalline silica	14808-60-7	57 - 62%
	Portland cement	65997-15-1	33 - 38%
	Sepiolite	63800-37-3	<1%
Other chemicals present in this mixture are present at <1% or <0.1% per OSHA 2012 HCS			

*All Concentrations are percent by Weight unless ingredient is a gas. Gas concentrations are in percent by volume

4. First-aid Measures

Ingestion:	Get medical attention immediately. Call a poison center or physician. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Inhalation:	Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of Portland cement requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in a recovery position and get medical attention immediately. Maintain an open airway.
Skin Contact:	Get medical attention immediately. Heavy exposure to Portland cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as



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Eye Contact:	<p>watchbands and belts. Quickly and gently blot or brush away excess Portland cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH natural soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposure to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure.</p> <p>Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.</p>
Most Important Symptoms/Effects, Acute and Delayed Symptoms:	<p>Causes serious eye damage. Inhalation of dust may cause respiratory tract irritation. Symptoms of exposure may include cough, sore throat, nasal congestion, sneezing, wheezing and shortness of breath. Prolonged inhalation of respirable crystalline silica above certain concentrations may cause lung diseases, including silicosis and lung cancer. Causes severe burns. May cause an allergic skin reaction.</p>
Indication of Immediate Medical Attention and Special Treatment Needed Treatment:	<p>Symptoms may be delayed.</p>

5. Fire-Fighting Measures

General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) Extinguishing Media	
Suitable Extinguishing Media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable Extinguishing Media:	Do not use water jet or water-based fire extinguishers.
Specific Hazards Arising From the Chemical:	Product is not flammable, combustible or explosive.
Special Protective Equipment and Precautions for Firefighters	
Special Fire Fighting Procedures:	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special Protective Equipment for Firefighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures:	Wear appropriate protective clothing and respiratory protection (see Section 8). Avoid generating airborne dust during clean-up.
Methods and material for containment and cleaning up:	Avoid dry sweeping. Do not use compressed air to clean spilled sand or ground silica. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system, or wet before sweeping. Dispose of in closed containers.



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Notification procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Precautions for Safe Handling	Good housekeeping procedures should be followed to minimize dust generation and accumulation. Any unavoidable deposit of dust must be regularly removed. Avoid spills. Do not eat, drink, or smoke in work areas. Wash hands and exposed skin after use. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including and incompatibilities:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. A key to using the product safely requires the user to recognize that Portland cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with cement. Do not get Portland cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and shoes before reuse. Do not enter a confined space that stores or contains Portland cement unless appropriate procedures and protection are available. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

8. Exposure Controls/Personal Protection

Control Parameters				
Occupational Exposure Limits				
Chemical Identity	Type	Exposure Limit Values	Source	
Crystalline silica	PEL	50 µg/m ³ (25 µg/m ³ Action Level)	US. OSHA 29 CFR 1910.1053, Respirable crystalline silica. See 29 CFR 1910.1000 Table Z-3, Mineral Dusts for any operations or sectors where the exposure limits in 1910.1053 are stayed or otherwise not in effect. (2019)	
Crystalline silica	TLV	0.025 mg/m ³ (respirable particulate matter)	U.S. ACGIH Threshold Limit Values (2009)	
Portland cement	PEL	15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction)	U.S. OSHA 29 CFR 1910.1000 Table Z-1 and 1910.1000 Table Z-3, Mineral Dusts, [as Silicates (less than 1% crystalline silica): 50 mppcf]. (2018)	
Portland cement	TLV	1 mg/m ³ (respirable)	U.S. ACGIH Threshold Limit Values (2009)	



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Sepiolite	PEL	particulate matter) 15 mg/m ³ (total dust), 5 mg/m ³ (respirable fraction)	U.S. OSHA 29 CFR 1910.1000 Table Z-1 and 1910.1000 Table Z-3, Mineral Dusts, [as Silicates (less than 1% crystalline silica): 50 mppcf]. (2018)
Sepiolite	TLV	10 mg/m ³	U.S. ACGIH Threshold Limit Values
*PEL – permissible exposure limit; TLV – threshold limit value			
Appropriate Engineering Controls	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		
Individual Protection Measures, Such as Personal Protective Equipment			
General Information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.		
Eye/Face Protection:	Wear safety glasses with side shields (or goggles).		
Skin Protection			
Hand Protection:	Use suitable protective gloves if risk of skin contact.		
Other:	Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.		
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.		
Hygiene Measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.		

9. Physical and Chemical Properties

Appearance	Physical State:	Powder
	Form:	Powder
	Color:	Tan
Odor:		Mild
Odor Threshold:		No data available.
pH:		No data available.
Melting Point/Freezing Point:		No data available.
Initial Boiling Point and Boiling Range:		No data Available.
Flash Point:		> 93 C > 200 F (Setaflash Closed Cup)



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Evaporation Rate:	Slower than Ether
Flammability (Solid, Gas):	No
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper (%):	No data available.
Flammability Limit – Lower (%):	No data available.
Explosive Limit – Upper (%)	No data available.
Explosive Limit – Lower (%)	No data available.
Vapor Pressure:	No data available.
Vapor Density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative Density:	1.05
Solubility(ies)	
Solubility in Water:	Insoluble in water.
Solubility (other):	No data available.
Partition Coefficient (n-Octanol/Water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	Thermal Decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological Information

Information on Likely Routes of Exposure	
Ingestion:	Ingestion in an unlikely route of exposure. If dust is swallowed, it may cause burns to mouth, throat and stomach.
Inhalation:	Inhalation of dust may cause respiratory tract irritation. Symptoms of exposure may include cough, sore throat, nasal congestion, sneezing, wheezing and shortness of breath.
Skin Contact:	Causes severe burns. May cause an allergic skin reaction.
Eye Contact:	Causes serious eye damage.
Information on Toxicological Effects	
Acute Toxicity	
Crystalline silica	
Oral:	LD ₅₀ (rat): >22,500 mg/kg of body weight
Dermal:	No data available.
Inhalation:	No data available.
Portland cement	
Oral:	LD ₅₀ (rat): >5,000 mg/kg of body weight
Dermal:	LD ₅₀ (rabbit): >2,000 mg/kg of body weight
Inhalation:	LC ₅₀ (rat): >5.8 mg/L
Sepiolite	
Oral:	No data available.



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Dermal:	No data available.
Inhalation:	No data available.
Repeated Dose Toxicity Product:	No data available.
Specified Substance(s):	
Crystalline silica	Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer and other effects as indicated below.
Portland cement	No known significant effects or critical hazards.
Sepiolite	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified Substance(s):	
Crystalline silica	No data available.
Portland cement	Irritating (Skin Irritation, Category 1).
Sepiolite	No data available.
Serious Eye Damage/Eye Irritation Product:	No data available.
Specified Substance(s):	
Crystalline silica	No data available.
Portland cement	Irreversible effects on the eye (Eye Damage, Category 1).
Sepiolite	No data available.
Respiratory or Skin Sensitization Product:	No data available.
Specified Substance(s):	
Crystalline silica	Quartz (crystalline silica) in excess of 2% may pose a risk for silicosis, a lung disease. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has been associated with silicosis. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Smoking may increase the risk of developing lung disorders, including emphysema and lung cancer. Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Several studies of persons with silicosis also indicate an increased risk of developing lung cancer, a risk that increases with the duration of exposure. Some of these studies of silicosis do not account for lung cancer confounders, especially smoking.
Portland cement	No data available.
Sepiolite	No data available.
Carcinogenicity Product:	No data available.
Specified Substance(s):	
IARC Monographs on the evaluation of Carcinogenic Risks to Humans:	
Crystalline silica	Group 1: carcinogenic to humans.
Portland cement	No data available.
Sepiolite	No data available.
US National Toxicology Program (NTP) Report on Carcinogens:	
Crystalline silica	Known human carcinogen.
Portland cement	No data available.
Sepiolite	No data available.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):	
Crystalline silica	May cause cancer (29 CFR 1910.1053(j)(2)).



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Portland cement	No data available.
Sepiolite	No data available.
Reproductive Toxicity Product:	No data available.
Specific Target Organ Toxicity – Single Exposure Product:	No data available.
Specified Substance(s):	
Crystalline silica	No data available.
Portland cement	Category 3 - Respiratory tract irritation, skin irritation.
Sepiolite	Category 3 - Respiratory tract irritation, skin irritation.
Specific Target Organ Toxicity – Repeated Exposure Product:	No data available.
Specified Substance(s):	
Crystalline silica	Category 1 – Respiratory tract and kidneys.
Portland cement	No data available.
Sepiolite	Category 1 – Respiratory tract and kidneys.
Aspiration Hazard Product:	No data available.
Other Effects:	No data available.

12. Ecological Information

Eco-Toxicity:	
Acute Hazards to the Aquatic Environment:	
Fish Product:	No data available.
Specified Substances(s):	
Crystalline silica	LC ₅₀ (Carp, 72 hr): >10,000 mg/l
Portland cement	No data available.
Sepiolite	No data available.
Aquatic Invertebrates Product:	No data available.
Specified Substance(s):	
Crystalline silica	No data available.
Portland cement	No data available.
Sepiolite	No data available.
Chronic Hazards to the Aquatic Environment:	
Fish Product:	No data available.
Specified Substance(s):	
Crystalline silica	No data available.
Portland cement	No data available.
Sepiolite	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BCF) Product:	
Partition Coefficient n-octanol / Water (Log Kow) Product:	No data available.
Mobility in Soil:	No data available.



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Other Adverse Effects: No data available.

13. Disposal Considerations

Disposal Instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.

14. Transport Information

TDG:	Not Regulated
CFR/DOT:	Not Regulated
IMDG:	Not Regulated

15. Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable Quantity
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None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate (Acute)

Health Hazards

Delayed (Chronic)

Health Hazards

SARA 302 Extremely

Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency

Release Notification

Chemical Identity	Reportable Quantity
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None present or none present in regulated quantities.

SARA 311/312

Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
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None present or none present in regulated quantities.

SARA 313 (TRI Reporting)	None present or none present in regulated quantities.
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Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



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Crystalline silica (airborne particles of respirable size) is classified as a substance known to the State of California to be a carcinogen.

Portland cement is classified as a substance known to the State of California to be a carcinogen.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Crystalline silica Listed.
 Portland cement Listed.

US. Massachusetts RTK –Substance List

Chemical Identity

Crystalline silica Silica, crystalline (respirable size, <10 microns) is “toxic” for purposes of the Massachusetts Toxic Use Reduction Act.
 Portland cement Listed.

US. Pennsylvania RTK – Hazardous Substances

Chemical Identity

Crystalline silica Quartz is a hazardous substance under the Act, but it is not a special hazardous substance or an environmental hazardous substance.
 Portland cement Listed.

US. Rhode Island RTK

Crystalline silica Listed as fibrous glass dust.
 Portland cement Listed.

Other Regulations:

Regulatory VOC (Less Water and Exempt Solvent): None present or none present in regulated quantities.
 VOC Method 310: None present or none present in regulated quantities.

Inventory Status:

Australia AICS: One or more components in this product are not listed on or exempt from inventory.

Canada DSL Inventory List: All components in this product are listed on or exempt from the inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals: One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.



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**Japan Pharmacopoeia
Listing:**

One or more components in this product are not listed on or exempt from the Inventory.

16. Other Information, Including Date of Preparation or Last Revision

Revision Date:

July 21, 2020

Version #:

1.0

Further Information:

No data available.

Disclaimer:

For Industrial use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.