

Ecologic™ HempCrete Binder Platinum

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER			
Product Name:	Ecologic™ HempCrete Binder I	Ecologic™ HempCrete Binder Platinum	
Brand:	Ecologic™	Ecologic™	
Recommended Use:	Lime binder for mixing with Indu	Lime binder for mixing with Industrial Hemp Hurd to create HempCrete Insulation	
Supplier's Details:	LimeWorks.us 3145 State Road Telford, PA 18969	Phone: 215-536-6706 Fax: 215-453-1310 Website: www.limeworks.us	
Emergency Phone Number:	InfoTrac 1-800-535-5053		

SECTION 2 – HAZARD IDENTIFICATION GHS05 GHS07 GHS08 Corrosion Irritant Health Hazard

Signal word: Danger Hazard statements:

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

Precautionary statements:

P102: Keep out of reach of children

P280: Wear protective gloves/clothing/eye and face protection

P305+P351+P338+P310: In case of contact with the eyes, rinse carefully with clean water for several minutes. In relevant cases, take off contact lenses if possible. Immediately call a Poison Center or a doctor/physician.

P302+P352: If in contact with skin: wash abundantly with soap and water.

P332+P313: For skin irritation: consult a doctor.

P261+P304+P340: Avoid powder inhalation. In case of inhalation, bring the affected individual outside into fresh air and make the individual relax in a comfortable position for breathing.

P312: Call a Poison Center in case of general feeling of sickness.

P501: Dispose of bags content/empty bags at a point of refuse collection. Before disposal, NHL lime should be made inert by wetting it to induce hardening, and bags should be completely emptied.



NFPA ratings (scale 0 - 4)





Health = 3 Fire = 0 Reactivity = 0 Special Notice = None



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HMIS-ratings (scale 0 – 4)				
FLAMMABILITY PHYSICAL HAZARD PERSONAL PROTECTION	3 0 0 J	Health = 3 Flammability = 0 Physical Hazard = 0 Personal Protection = J		
Other hazards	3	None known		
SECTION 3	- CC	MPOSITION / INF	ORMATION ON INGREDIENTS	
CAS: 1305-62- RTECS: EW28			Calcium Dihydroxide Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 3; H315, H318, H335, H402	10% - 20%
CAS: 471-34-1 RTECS: FF933			Calcium Carbonate	30% - 60%
CAS: 1305-78- RTECS: EW31	-		Calcium Oxide Skin Irrit. 2; Eye Dam. 1; STOT SE 3; H315, H318, H335	< 1%
CAS: 10034-77-2			Calcium Silicate	5%-20%
CAS: 1344-28-1			Aluminum Oxide	0.5% - 5%
CAS: 14808-60-7 RTECS: VV7565000			Crystalline Silica Carc. 1A; STOT RE 1; H350, H372	10% - 50%
CAS: 1309-37-1			Oxide Pigment	> 1%

May also contain ~1 of less of Magnesium oxide, Potassium oxide, Sodium oxide, Ferric oxide, ... * May exceed the limit ...

Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335

SECTION 4 - I	SECTION 4 - FIRST AID MEASURES		
Inhalation:	Remove source of contamination or have person move to fresh air. If not breathing, give artificial respiration. Obtain medical attention immediately.		
Skin Contact:	Wash contaminated area with running water for at least 15-20 minutes, while removing contaminated clothing. Obtain medical attention. Launder contaminated clothing before re-use.		
Eye Contact:	Immediately flush the contaminated eye(s) with gently flowing water for at least 15-20 minutes. Obtain medical attention.		
Ingestion:	NEVER give anything by mouth if the person is rapidly losing consciousness, or is unconscious, or convulsing. Rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain Medical attention immediately.		

SECTION 5 – FIRE FIGHTING MEASURES		
Fire Hazards/Conditions of Flammability:	This product is not flammable or combustible	
Flash Point (Method):	Not Determined	
Lower Flammable Limit (% by volume):	Not Determined	
Upper Flammable Limit	Not Determined	

RTECS: NO7400000



(% by volume):	
Sensitivity to Mechanical Impact:	Probably not sensitive.
Sensitivity to Static Discharge:	Probably not sensitive.
Auto-Ignition Temperature:	Not Determined
Suitable Extinguishing Media:	Carbon dioxide, dry chemical powder, and appropriate foam for surrounding products.
Special Fire-Fighting Procedures/Equipment:	During a fire, irritating/toxic smoke and fumes may be generated by surrounding products. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece.
Hazardous Combustion Products:	Carbon oxides, other irritating fumes, and smoke generated by surrounding products

SECTION 6 – ACCIDENTAL RELEASE MEASURES		
Personal Precautions:	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Remove all ignition sources. Remove or isolate flammable and combustible materials. All persons dealing with clean-up should wear the appropriate protective equipment (See section 8).	
Environmental Precautions:	Confine spill, preventing it from entering sewer lines or waterways. Dispose of as per local, state, and federal regulations	
Spill Response / Cleanup:	Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product Notify the appropriate authorities as required.	

SECTION 7 – HANDLING AND STORAGE		
Safe Handling Procedures:	Before handling, it is very important that engineering controls are operating, and that protective equipment requirements, and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Handling equipment should be properly grounded. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dusts. Avoid contact with eyes, skin, and clothing. Avoid generating high concentrations of dusts. Keep away from incompatible materials such as strong oxidizing materials. Keep containers closed when not in use.	
Storage Requirements:	Store in a cool, dry, well-ventilated area out of direct sunlight. Store away from incompatible materials. Inspect all incoming containers to make sure they are properly labeled and not damaged. Storage area should be clearly identified, clear of obstruction, and accessible only to trained personnel. Inspect periodically for damage or leaks.	
Incompatible Materials:	STRONG OXIDIZING MATERIALS, strong acids, some metals.	

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION					
Exposure Limits:	There is no available	There is no available data for the product. See below for individual ingredient exposure limits.			
Ingredient		OSHA PEL		ACGIH TLV	
		TWA	STEL	TWA	STEL
Calcium Hydroxide		15 mg/m₃	Not Determined	10 mg/m₃	Not Determined
Calcium Carbonate		15 mg/m ₃ 5 mg/m ₃ (resp.)*	Not Determined	10 mg/m ₃ 5 mg/m ₃ (resp.)*	Not Determined



Calcium Oxide	5 mg/m₃	Not Determined	2 mg/m₃	Not Determined
Crystalline Silica	10 mg/m _{3 †} (resp.) %SiO ₂ +2	Not Determined	.1 mg/m _{3 †} (resp.)	Not Determined
Oxide Pigment	5 mg/m₃	Not Determined	5 mg/m₃	Not Determined

Engineering Controls:	Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits.
Respiratory Protection:	Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirator if the exposure limits are unknown.
Protective Clothing/Equipment:	Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mist and dust from entering the eyes. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
General Hygiene Considerations:	Avoid generating high concentrations of dusts. Avoid contact with skin and eyes. Avoid breathing dusts or mists. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Physical State, Color, Etc:	White to gray powder.	Upper / lower flammability or explosive limits:	Not Determined
Odor:	Odorless	Vapor Pressure:	Not Determined
Odor Threshold:	Not Determined	Vapor Density:	Not Determined
pH:	~12.3	Relative Density:	Not Determined
Melting / Freezing Point:	Not Determined	Solubility(ies):	Slightly in water
Initial Boiling Point and Boiling Range:	Not Determined	Partition Coefficient: n-octanol/water:	Not Determined
Flash Point:	Not Determined	Auto-Ignition Temperature:	Not Determined
Evaporation Rate:	Not Determined	Decomposition Temperature:	Not Determined
Flammability (solid, gas):	Not Determined	Viscosity:	Not Determined

SECTION 10 – STABILITY AND REACTIVITY DATA		
Reactivity:	Not Determined	
Chemical Stability:	Stable under the recommended storage and handling conditions prescribed.	
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.		

^{*} Respirable fraction.
** Crystalline silica is expected to be below 1%, but concentrations may vary with source material

[†] The OSHA Permissible Exposure Limit (PEL) for Silicon Dioxide (SiO₂) is dependent upon the percentage of free silica in the dust and is calculated by a formula given.



Conditions to Avoid: Incompatible materials (see Section 7).		
Incompatible Materials:	Incompatible materials (see Section 7).	
Hazardous Decomposition Products:	Hazardous combustion products (see Section 5).	

SECTION 11 – TOXICOLOGICAL INFORMATION					
Routes of Exposure:		Eye contact, ingestion, inhalation, skin contact.			
Effects of Short-Terr	n (Acute) Exposure:				
Eyes:	Direct eye contact may cause moderate eye irritation or burn. Symptoms may include redness, stinging, tearing, and pain.				
Ingestion:	Ingestion may cause irritation or burn to the mouth, throat, and stomach. Symptoms may include dizziness, drowsiness, nausea, headache, and other central nervous system effects.				
Inhalation:	May cause irritation or burn to the nose, throat, and respiratory tract. Symptoms may include burning sensation, sore throat, runny nose, coughing, wheezing, shortness of breath, and difficulty breathing.				
Skin:	Direct skin contact ma	ay cause moderate to severe irritation or burn			
Effects of Long-Term	n (Chronic) Exposure	:			
Inhalation:	Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans" by IARC and "sufficient evidence" of carcinogenicity by the NTP. – Based on Human Evidence				
Other Important Haz	zards: Not Determined				
Numerical Measures	Numerical Measures of Toxicity:				
Ingredient		CAS # and RTECS #	LD ₅₀ (route, species)		
Calcium Hydroxide		CAS: 1305-62-0 RTECS: EW2800000	7,340 mg/kg Oral, Rat		
Calcium Carbonate		CAS: 471-34-1 RTECS: FF9335000	6,450 mg/kg Oral, Rat		
Calcium Oxide		CAS: 1305-78-8 RTECS: EW3100000	Not Determined		
Crystalline Silica		CAS: 14808-60-7 RTECS: VV7565000	Not Determined		
Oxide Pigment		CAS: 1309-37-1	Not Determined		



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RTECS: NO7400000

SECTION 12 – ECOLOGICAL INFORMATION			
Ecotoxicity:	There is no available data on the product itself.		
Persistence and Degradability:	Not Determined		
Bioaccumulative Potential:	Not Determined		
Mobility in the Soil:	Not Determined		
Other Adverse Effects:	Not Determined		

SECTION 13 – WASTE DISPOSAL

Disposal must be in accordance with National or Local legislation and directives. Bags are exclusively for containing the product and must not be utilized for other use. Dispose of the contents and bags at a point of refuse collection.

Harden the product before disposal by wetting it. Bags should be totally emptied.

UN Number	Non Dogulated	Environmental Hazards	Not Applicable
ON Number	Non-Regulated Material	Environmental Hazarus	Not Applicable
UN Proper Shipping Name	Non-Regulated Material	Transport in Bulk	Not Applicable
Transport Hazard Class(es)	Non-Regulated Material	Special Precautions	Not Applicable
Packing Group	Non-Regulated Material		

SECTION 15 - REGULATORY INFORMATION					
OSHA Information:		This product is regulated according to OSHA. This SDS contains all the information required by OSHA.			
TSCA Information:		The ingredients in this product are listed on the TSCA.			
National Fire Protect	ction Association (NF	PA):			
HEALTH: 3	FLAMMABILITY: 0	INSTABILITY: 0	SPECIAL HAZARDS: Refer to Section 1 & 3		
HAZARD SCALE:	0 = Minimal	1 = Slight	2 = Moderate	3 = Serious	4 = Severe
New Jersey Labeling Requirements:		Ingredients to be disclosed on product labeling: Refer to Section 3.			
California Proposition 65:		This product contains chemicals that are known to the State of California to cause cancer or other reproductive harm.			



SECTION 16 – OTHER INFORMATION				
References:	Safety Data Sheets from manufacturer/supplier.			
Abbreviations:				
ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program	
AIHA	American Industrial Hygiene Association	OSHA	Occupational Safety and Health Administration	
CAS	Chemical Abstract Service	PEL	Permissible Exposure Limit	
DSL	Domestic Substance List STEL Short-term Exposure Limit			
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value	
LC	Lethal Concentration	TSCA	Toxic Substances Control Act	
LD	Lethal Dosage	TWA	Time Weighted Average	
N/A	Not Applicable/Not Available	WHMIS	Workplace Hazardous Materials Information System	
NIOSH	National Institute for Occupational Safety and Health			
H315	Causes skin irritation			
H318	Causes serious eye damage			
H319	Causes serious eye irritation			
H335	May cause respiratory irritation			
H350	May cause cancer			
H372	Causes damage to organs through prolonged or repeated exposure			
H402	Harmful to aquatic life	Harmful to aquatic life		



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To be best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. End of the SDS.