

Material Safety Data Sheet (MSDS) – Hemp SHAPES™

IDENTITY (As Used on Label and List)

Hemp SHAPES™

Section I

Manufacturer / Supplier's Name:

Sustainable Materials LLC

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Boulder, CO 80301

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Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	Amount in product	OSHA PEL	ACGIH TLV	Other Limits Recommended
Hemp (shredded)	98-99%	15 mg/m3 for total dust; 5 mg/m3 respirable fraction of wood dust ¹	1 mg/m(3) – for 8 hour work day ²	NIOSH REL: 1 mg/m(3) – for 10 hour work day ³
Polymerized Polyurethane binder and proprietary pigmentation (for bonding and coloring hemp agglomerate)	< 2% by volume	Not Listed	Not Listed	Not applicable

1-3 OCCUPATIONAL SAFETY AND HEALTH GUIDELINE FOR WOOD DUST, ALL SOFT AND HARDWOODS, EXCEPT WESTERN RED CEDAR

4-6 Parts of vapor or gas per million parts of contaminated air by volume at 25 [deg]C and 760 torr. (**Gases, vapors, fumes, dusts, and mists. - 1926.55 App**).

Section III - Physical/Chemical Characteristics ⁴

Boiling Point	No Data	Auto Ignition Temperature	200° F
Melting Point/Evaporation Rate	No Data		
Solubility in Water	Not Applicable		
Appearance and Odor	Natural hemp color with an odor of wood		

Section IV - Fire and Explosion Hazard Data

General

Hemp wall coverings do not present any special risk and are not an explosion hazard. Sanding, sawing or machining can result in the generation of wood and hemp dust that can present a strong explosion hazard if a dust cloud contacts an ignition source.

Extinguishing Media

Water, carbon dioxide, sand or dry chemical

Special Fire Fighting Procedures

None

Unusual Fire and Explosion Hazards

None

Section V - Reactivity Data

Stability

Yes

Conditions to Avoid

Not applicable to product in its' supplied form.

Incompatibility (*Materials to Avoid*)

Not applicable

Hazardous Decomposition or Byproducts

Byproducts emitted by decomposition include carbon monoxide, carbon dioxide, aliphatic aldehydes, polycyclic aromatic hydrocarbons, rosin acids, and terpenes.

Section VI - Health Hazard Data

Wood Dust:

Both the skin and respiratory system can become sensitized to wood dust. When a worker becomes sensitized to wood dust, he or she can suffer a severe allergic reaction (such as asthma) after repeated exposure or exposure to lower concentrations of the dust.

Other common symptoms associated with wood dust exposure include eye irritation, nasal dryness and obstruction, prolonged colds, and frequent headaches.

Certain species of hardwood - such as oak, mahogany, beech, walnut, birch, elm, and ash - have been reported to cause nasal cancer in wood-workers. This is particularly true when exposures are high. The American Conference of Governmental Industrial Hygienists (ACGIH) recognizes wood dust as a "confirmed" human carcinogen,³ and recommends a limit of 1 milligram per cubic meter (mg/m³) for hardwoods and 5 mg/m³ for softwoods. At this time, OSHA regulates wood dust as a nuisance dust; however, OSHA strongly encourages employers to keep exposures to a minimum and to adopt the ACGIH levels. The maximum permissible exposure for nuisance dust is 15 mg/m³, total dust (5 mg/m³, respirable fraction).

Route(s) of Entry:

Mouth, Skin, eyes

Inhalation?

Yes

Skin?

Yes

Ingestion?

Yes

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Not applicable to product in its' supplied form.

Waste Disposal Method

No special disposal methods are required.

Precautions to Be taken in Handling and Storing

No special precautions are required for products in their supplied form. Keep material in a cool, dry, and ventilated place. Clean site of airborne dust as it is created to minimize airborne dust and contaminant issues.

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

No special handling precautions are required for products in their supplied form, though use of an acceptable NIOSH respirator is recommended to avoid inhalation of excess dust particles.

Ventilation

When milling, dust containment and adequate ventilation are requested.

Eye Protection

No special handling precautions are required for products in their supplied form, though use of protective eye protection is recommended when milling (cutting, shaping, etc.) to avoid discomfort and the potential of airborne dust to affect sight.

Other Protective Clothing or Equipment

No special protective clothing or equipment is required for products in their supplied form.

Section IX – Toxicology Information

Not available for products in their supplied form

Section X - Control Measures

Not available for products in their supplied form

Section XI – Ecological Considerations

Not applicable.

Section XII – Disposal Considerations

Follow applicable local, state, and federal guidelines for disposal.

Section XIII –Transportation Considerations

Not regulated as a hazardous material by the United States Department of Transportation in its supplied state.

Section XIV –Additional information

IMPORTANT: The information and data included in this report is believed accurate, and has been compiled through information and testing created for the manufacturing facility producing said material, as well as through conversations with OSHA, as well as through OSHA's detailed technical manuals, and information provided by other technical experts. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable local, state, and federal regulations. **NOTE: Sustainable Materials, LLC makes no warranty, of any kind, express or implied, concerning the accuracy and completeness of the information contained within, and will not be liable for claims relating to any party's reliance on this information.**