ECO-CEDAR™ MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Description:	Natural fiber reinforced polyethylene composite
Product Name:	Panelshake™
Manufacturer:	Panelshake LLC
	1440 Bent Drive
	Campbell, CA 95008
Phone:	408-409-6175
Shipping Name:	Panelshake composite roof panel, DOT: Non-Hazardous, Not Regulated

SECTION 2. INGREDIENTS

COMPONENT(1)	Wt %	PEL/TLV(2)	HAZARD	CAS #
Polyethylene	0 - 75	5 mg m^{-3}	None Noted	9002-88-4
Maleic Anhydride Modified Polyethylene	0 – 5	5 mg m^{-3}	None Noted	9006-26-2
Maleic Anhydride (residual)	< 0.2	0.25 ppm, 8 hr TWA / 0.1 ppm, 8 hr TWA, A4 Sensitizer		108-31-6
Polyethylene-Butene Copolymer	0 – 75	5 mg m^{-3}	None Noted	25087-34-7
Ethylene-Hexene-1 Copolymer	0 – 75	5 mg m^{-3}	None Noted	25213-02-9
Rice hull fibers	25 – 75	5 mg m^{-3}	None Noted	N/A
Amorphous Silica	4 – 16	$^{-3}$	None Noted	7631-86-9

(1) May contain low levels of polymers and additives. These compounds are contained with and reacted with the fiber or polymer matrix and are not expected to create any unusual hazards when used according to good manufacturing and industrial hygiene practices. (2) PEL (OSHA) for nuisance dust is 5 mg m^{-3}. TLV (ACGIH) for total dust exposure is 10 mg m^{-3}.

SECTION 3. HAZARDOUS INGREDIENTS

Malec Anhydride is incompatible with water, strong oxidizing agents, alkali metals, strong bases, amines, most common metals, polymerization catalysts and accelerators. It is harmful if swallowed, inhaled or absorbed through the skin. And can cause burns.

SECTION 4. FIRST AID MEASURES

Eye Contact:	Flush thoroughly with clean water. Seek medical attention if irritation persists
Skin:	Wash contact areas with soap and water and wash contaminated clothing before reuse.
Inhalation:	Inhalation of dust may cause lung and throat irritation. Nuisance dust can be generated from this product. The PEL of nuisance dust is 5 mg m^{-3}. If respiratory irritation, cough, shortness of breath, or chest tightness occurs after exposure to dust, remove affected person form source of exposure and seek medial attention if irritation or breathing difficulties persist.
Ingestion:	This product is not intended for consumption. Seek medical attention if this product is ingested.

SECTION 5. FIRE FIGHTING MEASURES

Extinguish fires with agents approved for Class A hazards (E.G. water fog/spray, CO_2 foam or dry chemical). Products of combustion may result in the release of CO, CO_2, NO, NO_2, H_20, organic vapors such as acetaldehyde, formaldehyde, acetone, formic acid, acetic acid, acrolein, smoke and other unidentified compounds. Use NIOSH/MSHA approved SCBA & full protective equipment for fire fighting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Notification Procedure:	None
Release or Spill:	Sweep or vacuum into containers.
Environmental Procedures:	None
Personal Precautions:	See Section 8

SECTION 7. HANDLING AND STORAGE

Storage and Handling: Do not store near heat, flame, or strong oxidants.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:	Provide general exhaust for dust exposure. If the product is heated to melt point fumes may be emitted in the form of oligomers and smoke. Local exhaust may be required.
Respirator:	Recommended if dust is generated.
Gloves:	Gloves should be worn when handling heated product.
Hygiene:	Wash hands thoroughly before eating, drinking, or smoking.
Eye protection:	Wear eye protection when conveying or handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Density:	1.1 to 1.3 g cm^{-3}
Appearance:	Solid
Volatility by Weight:	Not volatile
Solubility in Water:	Negligible
Reactivity:	Very stable
Flash Point:	360 °C
Melt Point:	135 °C -150 °C
Odor:	Slight Olefinic, Sweet

SECTION 10. STABILITY AND REACTIVITY

This product is stable unless subjected to extremely strong acids. Decomposition products from fire are noted in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Oral Toxicity (Rats):	Not Established.
Dermal toxicity (Rabbits):	Not Established.
Inhalation toxicity (Rats):	Not Established.
Eye irritation (Rabbits):	Not Established.
Skin irritation(Rabbits):	Not Established.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate and Effects: Not Established.

SECTION 13. DISPOSAL CONSIDERATION

Waste disposal: Dispose according to State, Federal and Local regulations that may apply.

SECTION 14. TRANSPORT INFORMATION

USA DOT: Not Regulated

SECTION 15. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act): N/A

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): N/A

SARA (Superfund Amendments and Reauthorization Act of 1986 , Title III): Contains no Extremely Hazardous Substances. Section 311/312 Hazard Categories: None

California Proposition 65: Warning: This product contains a chemical known to the State of California to cause caner and birth defects or other reproductive harm

SECTION 16. OTHER INFORMATION

Revision Date: April 2, 2011

Disclaimer of Liability

While Panelshake LLC, believes the data set forth herein is accurate as of the date hereof, Panelshake LLC makes no warranty, express or implied, regarding its correctness with respect thereto and expressly disclaims all liability or reliance thereon. The conditions and methods of handling, storage, use and disposal of the product are beyond Panelshake's control. For this and other reasons, Panelshake LLC does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use, or disposal of this product.