ENGINEERED SURFACES BORDENER™

Korlux™

Material Safety Data Sheet

Revision Date: February 18, 2007 **Approved by:** Chris Surbrook, Chief Scientist

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name:	Korlux™ Flexible Stone Veneer™. (All Grades and Thicknesses)
Synonym:	Decorative Laminate Sheet
EINECS:	
Canadian DSL:	All components in Korlux™ sheet are included in the Canadian DSL listing
Manufacturer:	**Bordener Engineered Surfaces**, 4708-B James Savage Road, Midland, MI 48642 U.S.A.
Information Tel:	1-888-4-KORLUX (456-7589)
Material Use:	Decorative Surface Covering.

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

CAS No:	Not applicable.
Formula:	Proprietary polyolefin formulation typified by CAS# 9010-79-1 containing a mixture of inorganic fillers and colorants considered non-hazardous. Because these components are encapsulated in the polyolefin polymer, exposure is negligible in normal handling.

SECTION 3 – HAZARDS IDENTIFICATION

Physical Appearance: Flat sheet, 0.20 - 0.100 inch thick.

Emergency Overview: This mixture has not been evaluated as a whole. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. However, some irritating fumes may be released upon heating or burning and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respirator program, etc.) to protect his employees from exposure. Molten or heated material can cause severe burns to the skin and eyes. Provide ventilation to avoid exposure to decomposition vapors.

HMIS (United States)

Health	**0**	**Flammability**	**2**	**Reactivity**	**0**	**Personal Protection Equipment**	**B**

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This product is not considered a controlled substance under WHMIS.

Potential Health Effects

Routes of Entry:	None for product as sold. For dust or chips produced during fabrication: eye contact, skin contact and inhalation. For heated or burning product: inhalation.
Skin Contact:	Handling of sheets may cause skin abrasions. Molten polymer may cause thermal burns.
Eye Contact:	No hazard for product as sold. Fabrication operations such as cutting, milling or sanding may produce dust or chips that are a mechanical irritant and may cause irritation and redness. Decomposition vapors formed from heating or burning may be irritating. Exposure to molten polymer may cause thermal burns. Vapors formed from heating or burning may be irritating.
Inhalation:	Fabrication operations such as cutting, milling or sanding may produce dust or chips that may be irritating to the nose, throat and upper respiratory tract.
Ingestion:	Decomposition vapors formed from heating or burning may cause irritation of the nose, throat and respiratory tract. No effects are expected from small amounts. Not classified as hazardous.

SECTION 4 – FIRST AID MEASURES

Skin Contact:	Molten Resin: if molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.
Eye Contact:	For dust or fines, flush eyes with water for 15 minutes. Get medical attention if necessary.
Inhalation:	For dust or fines, removed to fresh air. If not breathing, give artificial respiration. If breathing is difficult to give oxygen. Get medical attention.
Ingestion:	Not unexpected route of injury with normal use of this product.

SECTION 5 – FIRE AND EXPLOSION DATA

Flashpoint:	>329°C (625°F)
Flammable Limits:	Not available.
Auto ignition Temperature:	>357°C (675°F)
Extinguishing Media:	Use foam, carbon dioxide, or water spray when fighting fires involving this material.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, and soot.
Explosion Hazards:	There is no potential explosion hazard for the product as shipped. However, combustible concentrations of dust may occur in the air, during fabrication operations such as cutting, milling or sanding.
Fire Fighting Procedures:	Standard procedures for Class A fires.
Fire Fighting Equipment:	As in any fire, wear self-contained pressure demand breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
Sensitive to Static Discharge:	Static discharge could be an ignition source for a combustible concentration of dust.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small spill or leak:	Not applicable.
Large spill or leak:	Not applicable.
Environmental Precautions:	Not applicable.

SECTION 7 – HANDLING AND STORAGE

General Procedures:	Keep away from heat, sparks and flame.
Storage:	Use gloves to protect hands from cuts and abrasions.
Handling:	This product may react with strong oxidizing agents and should not be stored near such materials. Store pallets and sheet in areas protected with automatic sprinklers.
Storage Temperature:	60°C (140°F) maximum.
Shelf Life:	Not yet determined.
Electrostatic Accumulation Hazard:	Material may accumulate static charges during handling.

SECTION 8 – EXPOSURE CONTROLS / PERS0NAL PROTECTION

Engineering Controls:	Provide adequate room ventilation during fabrication operations. Eliminate ignition sources during repair and sanding operations.
Personal Protective Equipment	
Eyes and Face:	Wear safety glasses during fabrication operations.
Skin:	Wear gloves when handling sheets to avoid abrasions and cuts.
Respiratory:	A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.
Other Use Precautions:	Eyewash fountains and safety showers should be easily accessible.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Sheet.
Physical State:	Solid.
Odor:	Slight waxy.
Color:	The material may have a granite or marble appearance, a brushed metallic appearance or a translucent solid color appearance.

Freezing Point:	Not applicable.
Melting Point:	> 160°C (320°F)
Specific Gravity:	0.85 – 1.1
VOC Notes:	Negligible.
Percent Volatile:	< 0.5%
Water Solubility:	Negligible.

SECTION 10 – STABILITY AND REACTIVITY

Stability:	This product is stable.
Hazardous Polymerization:	No.
Conditions to Avoid:	Keep away from, heat, sparks and flame.
Hazardous Decomposition Products:	At elevated temperatures the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, and soot.
Incompatible Materials:	Oxidizing materials.

SECTION 11 – TOXOLGICAL INFORMATION

This product is not expected to be toxic to animals or humans. No toxicity testing has been done on animals or humans.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Data:	Not available.
Ecotoxicological information:	Not available.

Distribution:	Not available.
Chemical Fate Information:	Not readily biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: (1) Recycle (reprocess). (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. (3) Land filling in a licensed facility in accordance with local, state or provincial and federal regulations.

RCRA HAZARD CLASS: This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces. This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.3 3 paragraphs (e) or (1), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

SECTION 14 – TRANSPORTATION FORMATION

SPECIAL SHIPPING NOTES: This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

SECTION 15 – REGULATORY INFORMATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) - TITLE III NOTES: This product is not subject to SARA Title III requirements.

TSCA (TOXIC SUBSTANCE CONTROL ACT) – TSCA STATUS: All ingredients in this product are in compliance with TSCA.

OSHA HAZARED COMM RULE: This product is not considered a hazardous material at temperatures below the melting point as determined by Bordener Engineering Laminates according to OSHA definitions.

CLEAN WATER ACT: This product is regulated under EPA's Clean Water Act / NPDES rules as "sinking material". In addition, this product is considered a "significant material" under EPA's storm water permit rules.

SECTION 16 – OTHER INFORMATION

MANUFACTURER'S DISCLAIMER:

The information contained in this Material Safety Data Sheet has been compiled from sources which Bordener Engineering Laminates (BEL) considers reliable and accurate to the best of BEL's knowledge. The information relates only to the specific product described above, and not to use of the product in combination with another material. Customers and other users should read this MSDS and the product label carefully before using the product. BEL neither assumes, nor authorizes anyone to assume on BEL's behalf, any liability in connection with the use of the information in this MSDS.

Customers and other users should do their own testing before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other user's circumstances.

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