



Product | ekoa® Surface: Natural

1. Identification

ekoa® Surface Natural

Company Identification

Manufacturer/Distributor:

Lingrove Inc.
2180 Folsom St.
San Francisco CA, 94110
orders@lingrove.com
www.lingrove.com

2. Composition

<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Flax Fibers	N/A	30-70%
Polymer Resin 1	Classified	30-70%
Polymer Resin 2	Classified	0-10%
Paper Backing	N/A	5-10%

3. Physical Properties

Melting Point : 105°C (221°F)
% Volatiles : NA WT%
Odor : None
Form : Rollstock, sheetstock
Color : Brush
Water Solubility : Insoluble
VOC (Weight %) : < 0.1 mg m⁻³



4. Hazardous Reactivity

Overview

This product is not classified as hazardous.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition temperature : 300°C (572°F)

Hazardous gas / vapor produced are CO, CO₂, aldehyde and organic compounds.

Polymerization

Polymerization will not occur.

Other Hazards

The exact nature of the decomposition products will depend upon exposure conditions

- temperature, access to oxygen, flaming and presence of other materials.

5. Explosion Hazard and Fire Data

Flammable Properties

Unusual fire, explosion hazards

The solid polymer can be combusted only with difficulty. An electrostatic charge can potentially build up when processing film through film handling equipment and guide rolls. Grounding of the equipment is recommended.

Hazardous Combustion Products

Combustible. Hazardous gasses/vapors produced in fire are carbon monoxide, carbon dioxide and aldehydes.

Extinguishing Media

Water, foam, dry chemical and CO₂



6. Health Hazard

Ingestion: Non-Toxic

Inhalation: Airborne filament is a mechanical irritant. Breathing dusts and fibers may cause short term irritation of the mouth, nose and throat. Skin contact with dust and fibers may cause itching and short term irritation. Eye contact with dust and fibers may cause short term mechanical irritation. Ingestion may cause short term mechanical irritation of the stomach and intestines.

Eye, Skin, Ear: Non-Toxic

Chronic Effects: None known.

Medical Conditions: None aggravated by exposure known.

Carcinogenicity Information: None of the components present in this material are at concentrations equal to or greater than 0.1% are listed by IARC, OSHA or ACGIH as a carcinogen.

Melting: The pyrolysis gasses at the time of melting may cause symptoms such as dizziness, nausea, and headache. May cause burns on contact with molten resin.

7. Precautions for Safe Handling and Storage

Handling: Wear personal protective equipment. Loose fitting long sleeved shirt that covers to the base of the neck, long pants and gloves. Skin irritation is known to occur chiefly at pressure points such as around the neck, wrist, waist and between fingers. Use good housekeeping to keep contamination to a minimum.

Respiratory Protection: A properly fitted NIOSH/MSHA approved disposable dust respirator such as the 3M model 8210 (or 8710) or model 9900 (in high humidity environments) or equivalent should be used when: high dust levels are encountered; or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

Storage: Store in clean, cool, dry conditions, away from direct sunlight. Keep away from sources of ignition.

8. Emergency and First Aid

Inhalation: As in the case of inhalation of general foreign matter powder, get immediate medical attention if you feel abnormal.

Skin Contact: Rinse with water and soapy water, and get immediate medical attention if you feel abnormal.

Eye Contact: As in the case of entering general foreign matters, wash eyes thoroughly with clean water, and get medical attention. During eye wash, open the eyelids with your fingers, and wash with water to spread through every corner of the eye and the eyelid.



Ingestion: Seek medical attention.

9. Special Protection Information

Exposure limits:

No specific workplace exposure limits. Adhere to local limits.

10. Disposal Information

Water Disposal

Landfill or incineration is in compliance with applicable regulations.

Spill/Release

See Fire Fighting Procedures. Remove film to prevent any slipping hazards.

11. Recommended Storage Conditions

Chemical Stability

- Stable at normal temperatures and storage conditions.
- Observe all applicable regulations when storing this substance. Film should not be exposed to high humidity and storage temperatures should not exceed 80C. Film should be allowed to reach ambient temperatures before use.
- Avoid direct sunlight, avoid high temperatures, store on lower rack, handle with care.

12. Transportation Information

If temperatures of greater than 80°C are expected, "Refrigerated" Vans or Containers should be used.