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Section 1: Identification

Product Name: Recycled Cellulose Fiber Insulation
Synonyms: TBPI- Thermal Bound Paper Insulation
Product Use: Packaging
Manufacturer/Supplier: Acoustical Surfaces, Inc.
Address: Acoustical Surfaces, Inc.
123 Columbia Court N.
Chaska, MN 55318
1-800-854-2948

Section 2: Hazards(s) Identification

Potential Health Effects: None of the components in this material are considered hazardous.

EMERGENCY OVERVIEW: Caution: Paper (cellulose) dust may be harmful if inhaled. Overexposure may cause respiratory irritation, and may cause eye irritation.

ROUTES OF ENTRY:
Inhalation: Yes (dust)
Skin: No
Ingestion: No
Eyes: Yes (dust)

POTENTIAL HEALTH EFFECTS:
Inhalation: Inhalation of dusts may cause irritation when breathing or may aggravate pre-existing respiratory conditions or allergies.
Skin: None
Ingestion: None
Eyes: Exposure to dusts may cause severe irritation.

ACUTE/CHRONIC HEALTH HAZARDS:
INHALATION: Paper (cellulose) dust may aggravate pre-existing respiratory conditions or allergies.

AGGRAVATION OF PRE-EXISTING CONDITIONS:

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Paper (cellulose) dust may aggravate pre-existing respiratory conditions or allergies.

CARCINOGENICITY:
OSHA Regulated: No ACGIH: No NTP: No IARC Monographs: No OTHER: None

Binder
HAZARD CODES: None
RISK CODES: None
SAFETY PHRASES: None
This article is not considered hazardous or toxic.

This product is not a health hazard according to the OSHA Hazard Communication Standard 29 CFR 1910.1200. No hazard anticipated under conditions of foreseeable use or exposure.

Refer to Section 5 for Hazardous Combustion Products and Section 10 for Hazardous Decomposition Products.

Section 3: Composition/Information on Ingredients

94-97% Cellulose Fibers (Recycled Cardboard)
3-6% Polyethylene/Polyester binder fiber

(100% of binder fiber is composed of polyester (CAS: 025038-59-9) and polyethylene (CAS: 25213-02-9 or 262221-73-8 or 2508-34-7 or 9002-88-4)

Section 4: First-Aid Measures

Eye Contact: Not applicable
Ingestion: Not applicable
Inhalation: Not applicable
Skin Contact: Not applicable

No adverse health effects are expected from exposure to this product. However, as with many materials, a very small percentage of the population may be allergic to one or more of the components that make up these products. Employees who have a history of skin disease or allergy should receive medical clearance prior to employment involving direct contact.

Section 5: Fire-Fighting Measures

FIRE-FIGHTING PROCEDURES: Use standard procedures for Class A fires. Wear NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive

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EXTINGUISHING MEDIA: Water spray, dry chemical, foam, carbon dioxide or Halon may be used on fires involving this product.

CONDITIONS TO AVOID: None known.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, hydrocarbons, aldehydes, ketones, acrolein and fatty acids. Temperature, air supply, and materials present will affect the amount

FLASH POINT: > 650 oF (> 343 oC) Method: Setchkin
AUTOIGNITION TEMP: > 650 oF (> 343 oC)

Section 6: Accidental Release Measures

If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers and discard appropriately. In case of accidental spill or release, refer to SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Section 7: Handling and Storage

GENERAL MEASURES: Store in cool, dry space and away from sources of ignition or open flame, ideally in a warehouse that is protected with a fire sprinkler system. Store at temperatures below 60 º C (140 º F).

MATERIALS OR CONDITIONS TO AVOID: Avoid storing product near incompatible materials. See PSDS Section 10.

Handling Precautions: Should be stored in their original container, wrapped in their original plastic film or equivalent.

Section 8: Exposure Controls/Personal Protection

GENERAL HYGIENIC PRACTICES: Avoid breathing fiber and dust. Wash thoroughly after handling, and before eating, drinking or smoking.

RESPIRATORY PROTECTION: Use in a well-ventilated area. Use a NIOSH/MSHA-approved respirator appropriate for exposure to dust when allowable exposure limits may be exceeded.

RECOMMENDED EXPOSURE LIMITS: This product is not considered to present an inhalation health hazard under reasonably anticipated conditions of use

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, gloves o prevent possible skin irritation

WORK PRACTICES AND ENGINEERING CONTROLS: Eyewash fountains and safety showers should be easily accessible. Provide adequate ventilation.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE: Keep area clean. Product will burn.

Section 9: Physical and Chemical Properties

Cellulose Fiber

APPEARANCE: Paper / Corrugated

ODOR: None

PHYSICAL STATE: Solid

pH AS SUPPLIED: 6.5 - 8.5

pH (Other): Not applicable

BOILING POINT: Not applicable

MELTING POINT: Not applicable

FREEZING POINT: Not applicable

VAPOR PRESSURE (mmHg): None

VAPOR DENSITY (AIR = 1): None

SPECIFIC GRAVITY (H2O = 1): 0.1 - 0.3

EVAPORATION RATE (H2O = 1): Not applicable

SOLUBILITY IN WATER: Insoluble

PERCENT SOLIDS (BY WT): 100

PERCENT VOLATILE (BY VOL): Not applicable

Binder Fiber

Volatile (Wt.), %: < 3 % (Water)

Solubility in Water: negligible, below 1%

Specific Gravity: 1.0 – 1.3 g/cm3 (g/mL)

Melting Point: Surface melting 203 °F - 261 °F (95 °C - 127 °C)

Complete melting 500 °F (260°C)

Evaporation Rate: negligible

pH: 6.5 ± 1.0 at a concentration of 10% (made on the spin finish which is 1% of the fiber)

Appearance: textured and soft fibers

Odor: slight odor of spin finish

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Color: various

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Section 10: Stability and Reactivity

GENERAL STABILITY CONSIDERATIONS: Stable at recommended handling and storage conditions.

INCOMPATIBLE MATERIALS: Incompatible with: strong acids, bases, and oxidizing materials

CONDITIONS TO AVOID: Excessive heat should be avoided and open flames. Small quantities of fumes are produced at approximately 435 ºF (225 ºC) . These fumes gradually increase until approximately 572 º F (300 ºC) , when thermal decomposition (thermal degradation and oxidative pyrolysis) takes place. Above 572 º F, combustion may occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, acetic acid, carbon dioxide, hydrocarbons, aldehydes, ketones, acrolein and fatty acids may be formed during decomposition or burning.

HAZARDOUS POLYMERIZATION: Will not occur under normal or recommended handling and storage conditions.

Section 11: Toxicological Information

TOXICOLOGICAL INFORMATION: Cellulose LC50 (rats, inhalation) = 5,800 mg/m³ / 4 hours

REPORTED EFFECTS:

The skin and eye irritation effects of the spin finish have been examined with no harmful effects (according to OECD-guidelines no. 404 and 405).

CARCINOGENICITY INFORMATION:

Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

Section 12: Ecological Information

ECOTOXICITY: The binder fibers are not associated with any ecological problems. The binder fibers are not biodegradable.

Section 13: Disposal Considerations

WASTE DISPOSAL METHOD: Product may be landfilled. Disposal must be in accordance with federal, state and local solid waste regulations. Recycling this product is encouraged.

Section 14: Transport Information

SECTION 14 NOTES: Corrugated paper/boxes/containers are not a hazardous material for the purpose of transportation under the U.S. Department Of Transportation Table of Hazardous Materials, 49 CFR 172.101.

This product is not a dangerous good according to transport regulations.

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Section 15: Regulatory Information

U.S. TSCA Status:
This binder is considered to be an article by TSCA definition. All components are listed on the TSCA inventory.

SARA TITLE III

Sections 302 and 304:

This product is not an Extremely Hazardous Substance subject to reporting under 40 CFR 355

Sections 311 and 312:

NHH: Not a health hazard

NPH: Not a physical hazard

Section 313:

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372.

CERCLA:

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40 CFR 302.4

RCRA:

This product is not a hazardous waste as listed in 40 CFR 261.33. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C.

CALIFORNIA SAFE WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): This product does not contain any chemicals known to cause cancer or reproductive toxicity.

Section 16: Other Information

LIST OF ACRONYMS: ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances AIHA WEEL: American National Standards Institute C: Ceiling CASRN: Chemical Abstracts Service Registry Number

CERCLA: Comprehensive Emergency Response, Compensation and Liability Act DSL: Domestic Substances List (Canadian) EINECS: European Inventory of Existing Commercial Chemical Substances HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer MITI: Ministry of International Trade and Industry (Japanese) N/A: Not Applicable NDSL: Non-domestic Substances List (Canadian) NOR: Not Otherwise Regulated NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: OSHA Permissible Exposure Limit

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RCRA: Resource Conservation and Recovery Act RQ: Reportable Quantity SARA: Superfund Amendment Reauthorization Act STEL: Short-Term Exposure Limit TLV: Threshold Limit Values (registered trademark of ACGIH) TPQ: Threshold Planning Quantity TSCA: Toxic Substance Control Act TWA: Time Weighted Average

The information and recommendations contained in this Product Safety Data Sheet have been complied from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the PSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

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