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Last Revision Date: N/A Superseded Date: N/A Version Number: 01

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(SECTION 1) PRODUCT IDENTIFICATION

Product Name: Livingstone Corrugated Paper Cup

Product useA biopolymer which can be used for thermoformed, coating, injection molded, blow molded, and fiber

applications.

SECTION 2 HAZARD IDENTIFICATION

Emergency Overview

CAUTION! May cause eye/skin irritation. Burning produces obnoxious and toxic fumes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols

Appearance: Clear, translucent, opaque, pellets.

Color: Clear Translucent Opaque

Physical state: Solid
Odor: Sweet

Potential health effects:

Eye contact: Contact with eyes may cause irritation.

Skin contact: Substance may cause slight skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. **Target organ effects:** There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Sensitization: Did not cause sensitisation on laboratory animals

Specific hazards: No information available

Flammability: Fine dust dispersed in air may ignite.

Environmental precautions: Not determined See Section 12 for more information.

NFPA rating: Data not available

Health: 1
Flammability: 1
Reactivity: 0

Special: Not determined

HMIS classification:

Health: 1
Flammability: 1
Reactivity: 0

Personal Protective Equipment: Not determined

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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Weight %	OSHA Exposure Limits:	ACGIH Exposure Limits:
Polylactide resin 9051-89-2	>98	None	None

All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

Other Standards: This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety

and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ for respirable particulates.

(SECTION 4) FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a

physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a

physician. Cool skin rapidly with cold water after contact with hot polymer.

Inhalation: Move to fresh air. Call a physician immediately.

Ingestion: Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce

vomiting without medical advice. Call a physician immediately.

Notes to physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Flammability:

Autoignition temperature: 388C

Flammability Limits in Air:

Flammable limits in air - lower (%): Not applicable
Flammable limits in air - upper (%): Not applicable

Suitable extinguishing media: Foam. Water. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foams are preferred if available.

General-purpose synthetic foams (including AFFF) or protein foams may function, but much less

effectively.

Extinguishing media which must not be used for safety reasons:

No information available

Hazardous decomposition

products:

Burning produces obnoxious and toxic fumes Aldehydes Carbon monoxide (CO) carbon dioxide

Special protective equipment for

firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved

or equivalent) and full protective gear.

Under fire conditions: Cool containers / tanks with spray water. Water mist may be used to cool closed containers.

Other information: Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary

explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid dust formation.

Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.

Environmental precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground

water system.

Methods for cleaning up: Shovel into suitable container for disposal.

(SECTION 7) HANDLING AND STORAGE

Safe handling advice: Avoid contact with skin and eyes. Avoid dust formation. Workers should be protected from the

possibility of contact with molten material during fabrication. Low hazard for usual industrial or

commercial handling. Use personal protective equipment. See Section 8.

Storage: Store in cool place. Keep at temperatures below 122F (50 °C).

No special restrictions on storage with other products

Precautions: No special precautions required

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good

general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Control parameters: None
PERSONAL PROTECTIVE EQUIPMENT:

Eye protection: Safety glasses with side-shields. Goggles.

Skin and body protection: Impervious clothing.

Respiratory protection: Respirator must be worn if exposed to dust. Wear respirator with dust filter. Respiratory protection

is needed if any of the exposure limits in Section 2 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a postive-pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other

circumstances where airpurifying respirators may not provide adequate protection.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Hand protection: Preventive skin protection.

Hygiene measures: Avoid contact with skin, eyes and clothing.

Exposure limits: See Section 2.

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Clear, translucent, opaque, pellets.

Color: Clear, Translucent, Opaque

Physical state: Solid
Odor: Sweet

pH: Not applicableVapor pressure: Not determined

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Vapor density:

Evaporation rate:

Not determined

Not determined

1.24 g/cc

Boiling point/range:

Not applicable

482F (250C)

Melting point/range:

Not determined

Water solubility: Insoluble
Solubility in other solvents: None known

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Conditions to avoidTemperatures above 446F (230 °C). **Materials to avoid:**Oxidizing agents. Strong bases.

Hazardous decomposition

products:

Burning produces obnoxious and toxic fumes. Aldehydes.

Carbon monoxide (CO). carbon dioxide (CO2).

Polymerization: Not applicable

SECTION 11 TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute toxicity: There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Local effects: May cause eye/skin irritation. Product dust may be irritating to eyes, skin and respiratory system.

Caused mild to moderate conjuctival irritation in eye irritation studies using rabbits. Caused very mild

redness in dermal irritation studies using rabbits

(slightly irritating). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Long term toxicity: Did not cause skin allergic reactions in skin sensitization studies using guinea pigs.

Specific effects: May cause skin irritation and/or dermatitis. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore

throat and cough. Burning produces irritant fumes.

Mutagenic effects: Not mutagenic in AMES Test.

Reproductive toxicity: No data is available on the product itself. **Carcinogenic effects:** No data is available on the product itself.

Target organ effects: There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Skin: LD50/dermal/rabbit > 2000 mg/kg

Ingestion: LD50/oral/rat > 5000 mg/kg.

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(SECTION 12)

ECOLOGICAL INFORMATION

No data available Mobility:

Bioaccumulation: Does not bioaccumulate. Inherently biodegradable.

Ecotoxicity effects: EC50/72h/algae > 1100 mg/L

DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with

chemical or used container. Contact manufacturer.

THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

Contaminated packaging:

Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/

delivered using a registered waste carrier to local recyclers for disposal.

SECTION 14 TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):

Proper shipping name: Not regulated as a hazardous material.

IMDG:

Proper shipping name: None

Hazard class: Not regulated.

UN/Id No.: None Packing group: None

ICAO/IATA:

Proper shipping name: None

Hazard class: Not regulated.

Packing group: None

REGULATORY INFORMATION

(Not meant to be all inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express or implied is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS Sara 313 title III: Not Listed

TSCA Inventory List - Listed

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(SECTION 16)

OTHER INFORMATION

No information available

END OF SDS