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 Superseded Date: N/A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

SAFETY DATA SHEET

Product Code: LIVPC237

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SECTION 1 PRODUCT IDENTIFICATION

1.1. Product identifier

Product name : Livingstone Paper Cup
Type of product : OPE/ HOPE/ LLDPE / MLLDPE
Synonyms : 9002-88-4 (LOPE/ HOPE);
 25087-34-7(LLDPE / MLLDPE)

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Emergency telephone number

Emergency number

SECTION 2 HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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2.3. Other hazards

Other hazards which do not result in classification

: Fine dust may cause irritation of respiratory system and mucous. Contact with hot material -prevent serious burns. If heated to more than 130°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Dust may form explosive mixture in air. Combustible Dust.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------|-------------------------------------------------------------------|------|-----------------------------------------------------------------|
| Polyethylene | CAS-No.: 9002-88-4 (LDPE/HDPE) / 25087-34-7(LLDPE / MLLDPE) | 100% | Not classified |

| Chemical Ingredients | Percent (%) | Cas |
|----------------------|-------------|------------|
| Moisture content | 5--8 | / |
| Pulp | 82--90 | / |
| French white | 3--7 | 14807-96-6 |
| starch | 2--3 | 9005-25-8 |

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation

: Exposure to spray, fumes and vapours produced by heated or burned product: Move to fresh air. Call a doctor.

First-aid measures after skin contact

: Exposure to splashing of hot product: Treat the affected part with cold water (by spraying or immersion). Do not remove clothing adhering to the skin. In case of severe burns, seek hospital treatment.

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| | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after eye contact | : In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears. Obtain medical attention if irritation persists. |
| First-aid measures after ingestion | : Ingestion during handling is not likely. Do not induce vomiting. Rinse mouth out with water. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------------------------------|------------------------------------------------------------|
| Symptoms/effects | : Refer to § 11 for more details on effects. |
| Symptoms/effects after inhalation | : Dust from this product may cause respiratory irritation. |
| Symptoms/effects after skin contact | : Contact with hot material - prevent serious burns. |
| Symptoms/effects after eye contact | : Dust from this product may cause eye irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

| | |
|-----------------------------|------------------|
| Flash point | : not applicable |
| Low explosive limit | : none |
| High explosive limit | : none |

5.1. Extinguishing media

| | |
|---------------------------------------|----------------------------------------------------------------------------|
| Suitable extinguishing media | : For small fire: Carbon dioxide. Dry powder. Water. For large fire: Foam. |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard | : Combustible. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO ₂). Aldehydes. ketones. Acetone. Acetaldehyde. Formaldehyde. Hydrocarbons. acrolein; prop-2-enal; acrylaldehyde.. |

5.3. Advice for firefighters

| | |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : Notify fire brigade and environmental authorities. Evacuate unnecessary personnel. Use water spray to cool exposed surfaces. |

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Step to be taken if material is spilled or released: : not applicable

Waste disposal methods: : All waste material should be packaged, labeled and transported in accordance with all federal, state, and local regulations.

Precautions to be taken in handling and storage: : store in cool and dry place, keep away from acids, heat and out of direct sunlight.

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment. Gloves. Safety glasses.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : If spilled, may cause the floor to be slippery. Sweep up or vacuum up the product. Keep recovered product for subsequent disposal. Do not allow to enter drains or water courses. On water, recover/skim from surface and pour out in disposal container.

Other information : Dispose of contaminated material at an authorized site. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Keep away from food and drink.

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures | : Comply with applicable regulations. Provide local exhaust or general room ventilation. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. |
| Storage conditions | : Store at ambient temperature and at atmospheric pressure in original packaging (plastic or cardboard boxes) or in silo made of appropriate material (aluminium, stainless steel, ...). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Keep container tightly closed in a cool, well-ventilated place. |
| Special rules on packaging | : Three pallets must never be stacked. Under normal storage conditions, and following good working practices, two pallets may be stacked on flooring in sound condition. However, when the pictorial "Do not stack" is affixed to the pallet, the pallet must never be placed either on top of or below another pallet. N.B.: Here the term pallet includes both the pallet and its load. When pallets are stored in racks, it should be checked whether the pallet is fit for stacking in the concerned racks. |
| Packaging materials | : Polyethylene. Paper bag. Carton. Stainless steel. |

7.3. Specific end use(s)

Recommended to professional users.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

POLYETHYLENE LDPE & HDPE & LLDPE & MLLDPE

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA

: 10 mg/m³ inhalable dust particles
 3 mg/m³ respirable dust particles

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. If handling results in dust generation or high temperatures. local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Safety shower. Eye fountain.

8.2.2. Personal protection equipment

Personal protective equipment:

Dustproof dothing. Gloves. Safety glasses. Dust formation: dust mask.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective dothing. Safety foot-wear

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Dust/aerosol mask with filter type P1

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8.2.2.4. Thermal hazards

Thermal hazard protection:

Insulated gloves.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9

PHYSICAL/CHEMICAL PROPERTIES

9.1_ Information on basic physical and chemical properties

| | |
|-------------------------------------------------|---------------------------------------|
| Physical state | : Solid |
| Colour | : Translucent. White. |
| Appearance | : Pellet. |
| Odour | : Odourless. |
| Odour threshold | : Not available |
| Melting point | : 90-160 °C |
| Freezing point | : Not available |
| Initial boiling point and boiling range | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not applicable |
| Lower explosive limit (LEL) | : 0.015 kg/m ³ (< 63 µm) |
| Upper explosive limit (UEL) | : Not applicable |
| Flash point | : ≈340 °C |
| Auto-ignition temperature | : > 350 °C |
| Decomposition temperature | : Not available |
| pH | : Not applicable |
| pH solution | : Not available |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Water: Insoluble |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |

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| | |
|----------------------------------|-------------------------------|
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : 915 - 935 kg/m ³ |
| Relative vapour density at 20 °C | : Not available |
| Partide size | : Not applicable |
| Partide size distribution | : Not available |
| Partide shape | : Not available |
| Partide aspect ratio | : Not available |
| Partide aggregation state | : Not available |
| Partide agglomeration state | : Not available |
| Partide specific surface area | : Not available |
| Partide dustiness | : Not available |
| Evaporation Rate | : Not know |
| Specific gravity | : N.A |
| Water reactive | : N.A |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

| | |
|-------------------------|-----------|
| Minimum ignition energy | : 63mJ |
| VOC content | : < 0.3 % |

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Electrostatic charges may be generated during handling. Take precautionary measures against static discharge during blending and transfer operations.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

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10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid temperature above 320°C.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Halogens.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified pH: Not applicable |
| Additional information | : Heated product causes burns Thermal decomposition products are produced at elevated temperatures and these may be irritating |
| Serious eye damage/irritation | : Not classified pH: Not applicable |
| Additional information | : Fine dust may cause irritation to ocular mucous Thermal decomposition products are produced at elevated temperatures and these may be irritating Heated product causes burns |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

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| Additional information | : Dust may cause irritation of respiratory system. If heated to more than 130 °C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

POLYETHYLENE LDPE & HDPE & LLDPE & MLLDPE

| | |
|-----------------------------|------------------|
| Viscosity, kinematic | : Not applicable |
|-----------------------------|------------------|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

| | |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Adverse health effects caused by endocrine disrupting properties | : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0, 1 % |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

11.2.2. Other information

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

| | |
|------------------------------------------------------------------|--------------------------------------------------------|
| Ecology - general | : Do not allow product to spread into the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

12.2. Persistence and degradability

POLYETHYLENE LDPE & HDPE & LLDPE & MLLDPE

| | |
|--------------------------------------|------------------------------------------------|
| Persistence and degradability | : Product persists. Not readily biodegradable. |
| BOD (% of ThOD) | : Below detection limit |

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12.3. Bioaccumulative potential

POL YET HYLE NE LDPE & HDPE & LLDPE & MLLDPE

Bioaccumulative potential : Low bioaccumulation potential.

12.4. Mobility in soil

POL YET HYLE NE LDPE & HDPE & LLDPE & MLLDPE

Ecology - soil : low mobility.

12.5. Results of PBT and vPvB assessment

POL YET HYLE NE LDPE & HDPE & LLDPE & MLLDPE

Results of PBT assessment : Not required

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0, 1 %

12.7. Other adverse effects

No additional information available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Do not discharge the product into the environment. Recycle the material as far as possible.

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SECTION 14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA/ AON/ RID

| ADR | IMDG | IATA | ADN | RID |
|-----------------------------------------|-----------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing Group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine Pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

No data available

Transport by sea (IMDG)

No data available

Air transport (IATA)

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15 REGULATORY INFORMATION

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances
 Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
 Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants
 VOC content : < 0.3 %

15.1.2. National regulations

These registration entries are for polymers only. For additives, please refer to Qapco/Qatofin who will provide the necessary certification
 Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
 Complies the United States TSCA (Toxic Substances Control Act) inventory
 Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
 Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
 Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)
 Listed on the China Inventory of Existing Chemical Substances (IECSC)
 Listed on the Canadian DSL (Domestic Substances List)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on or exempt from listing on the Taiwan TCS I (Taiwan Chemical Substances Inventory)
 Listed on KECUKECI (Korean Existing Chemicals Inventory)

15.2. Cliemical safe assessment

The substance is not dassified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

SECTION 16 OTHER INFORMATION

Abbreviations and acronyms

| | |
|----------------|-------------------------------------------------------------------------------------------------|
| CAS-No. | Chemical Abstract Service number |
| AON | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DNEL | Derived-No Effect Level |
| IATA | International Air Transport Association |
| SDS | Safety Data Sheet |

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| IMDG | International Maritime Dangerous Goods |
| EC-No. | European Community number |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| OEL | Occupational Exposure Limit |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

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Users are advised of possible additional hazard when the product is used in application for which it was not intended.

END OF SDS

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