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01/11/2024 Issue Date:

Last Revision Date: N/A Superseded Date: **Version Number:** 

## SAFETY DATA SHEET

Product Code: MEA30P

**PAGE 1 OF 8** 

## PRODUCT IDENTIFICATION

1.1. PRODUCT IDENTIFIER Polyethylene

**Product name** Livingstone Paper Medicine and Pill Cup

**Trade name LOTRENE** 

Other names 9002-88-4 (LDPE); 25087-34-7 (LLDPE)

**Chemical name** Low density Polyethylene and linear low density Polyethylene

**CAS** number 9002-88-4 (LDPE); 25087-34-7 (LLDPE)

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND USES ADVISED AGAINST

For more detailed information, see technical data sheet.

Recommended uses Recommended to professional users

1.3. DETAILS OF THE SUPPLIER OF SAFETY DATA SHEET Trade name of the firm see below this page.

#### SECTION 2 HAZARD IDENTIFICATION

#### 2.1. Classification of the substance

EC-GHS (CLP) Not classified according to the regulation EC 1272/2008 (EC-GHS) and ATP

67/548/EEC & 1999/45/EC Not classified according to EEC directives 67/548/EEC (dangerous substances) and 1999/45/EC

(dangerous preparations).

Main hazards None to our knowledge

Low risk for temperatures below 130°C

Adverse human health effects

**Inhalation** Fine dust may cause irritation of respiratory system and mucous membranes.

If heated to more than 130°C, the product may form vapours or fumes which may cause irritation of

respiratory tract and cause cooughing and sensation of shortness of breath.

Skin contact In contact with hot material, may cuase severe thermal burns

**Eve contact** Fine dust may cause irritation to occular mucous.

**Adverse environmental effects** Because of its structure, the product should not be dangerous for aquatic life non-biodegradable

Adverse physicochemical

Combustible if exposed to flames. effects

Flowing product can create electrical charge, resulting sparks may ignite dust or cause an explosion in

some concentration ranges.

2.2. Label elements

EC-GHS (CLP) Not classified eaccording to regulation EC 1272/2008 (EC-GHS) and ATP

Pictogram(s) -

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Last Revision Date: N/A Superseded Date: **Version Number:** 

## SAFETY DATA SHEET

Product Code: MEA30P

PAGE 2 OF 8

### COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

(chemical name)

Polyethylene

**CAS** number

9002-88-4 (LDPE) / 25087-34-7 (LLDPE)

**EINECS or ELINCS** 

Number the product is a polymer, following the European regulation, registration on the EINECS

(European Inventory of Existing Commercial Chemical Substances) inventory is not required.

EC-GHS (CLP)

Non required

67/548/EEC & 1999/45/EC

Non required

Substances presenting a health hazard

None to our knowledge

Chemical familty

Olefinic polymer

**Additives** 

Antioxidants and stabilisers: 0.7 % maximum

### SECTION 4

### **FIRST AID MEASURES**

### 4.1. Description of first aid measures

Route of exposure

**Inhalation** Exposure to spray, fumes and vapours produced by heated or burned product:

> Bring patient into fresh air Seek medical advice.

Skin contact

Exposure to splashing of hot product:

Treat the affected part with cold water (by spraying or immersion).

No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material, the injured body part would risk being pulled out; usually the layer

detaches itself after a few days.

In case of sever burns, seek hospital treatment

Eye contact

Exposure to splashing of hot product:

Treat the eyes with cold water.

Seek specialist advice at hospital or medical centre Fine dust may cause irritation to occular mucous.

In case of irritaion caused by fine dust wash with copious volumes of wawter, until the irritation

disappears.

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

Refer to § 11 for more details on effects.

#### 4.3. Indicatio of any immediate medical attention and speial treatment needed

No information available

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Issue Date: 01/11/2024

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

# SAFETY DATA SHEET

Product Code: MEA30P

PAGE 3 OF 8

## SECTION 5 FIRE FIGHTING MEASURES

**Technical measures** Stop the fire spreading.

Call the fire brigade immediately. Evacuate non-essential personnel

Protective clothing, goggles and self-contained breathing equipment should be made available for

firemen

5.1. Extinguishing medial

**Suitable** For minor fires: carbon dioxide (CO2) or powder, water

For more extensive fires: foam. water spray (mist) to cool the surfaces exposed to the fire.

**Not to be used**Do not use water jets (stick jets) for extinguishing fire since they coul help to spread the flames

5.2. Special hazard arising from

the substance

Complete combustion, with an excess of oxygen forms: carbon (CO2) and water vapours. Partial combustion, forms also: carbon monoxide (CO), soot and cracked products: aldehydes, kotones, Acetone, Acetaldehyde, Formaldehyde, Acrolein, hydrocarbons and volatile fatty acid

**5.3. Avice for firefighters** Wear suitable breathing equipment, in case of risk exposure to vapour or fumes.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency** Personnel wear a suitable anti-dust respirator

Where exposure is likely, protective clothing must be worn including gloves, goggles/spectacles

**For emergency responders** Wear suitable breathing equipment, in case of risk of exposure to vapour or fumes.

### 6.2. Environmental precautions

Do not dispose off this product into the environment

### 6.3. Methods and material for containment and cleaning up

**On soil** Granules spilled on the floor can cause a risk of slipping on smooth surfaces.

Recover the spilled product by sweeping or suction; put it in containers to facilitate its disposal.

Dispose safely in accordance with local or national regulations.

**On water** Prevent the spilled material from speading.

If the material has been discharged into a stream or a sewerage system, inform th authorities of the

possible presence of floating materials.

Clean up the water surface by creaming off debris from the top.

Refer to a specialist for waste disposal in a safe manner in accordance with local or national

regulations.

### 6.4. Refer to points 8 and 13

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Issue Date: 01/11/2024

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

## SAFETY DATA SHEET

Product Code: MEA30P

PAGE 4 OF 8

### SECTION 7 HANDLING AND STORAGE

**Important** Refer to any national measures that may be relevant.

### 7.1. Precautions for safe and handling

**Technical measures** All pneumatic transport equipment must be electrically earthed>

Avoid dust accumulation by use of filters in the pneumatic transport equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

**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, ...).

Do not store near highly flammable materials.

Stroe away from heating source. avoid static electricity build up with connection to earth.

Store in dry, well-ventilated area.

Prolonged storage preferably out of the sun or other sources of radiation

**Storage of pallets** Two pallets may be stacked on flooring in sound condition.

However, when the pictorial warning as shown on the top of the safety data sheet 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

**7.3. SPECIFIC USE (S)** Recommended to professional users

Refer to point 8

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **8.1. CONTROL PARAMETERS**

Inhalable dust particles:

OCCUPATIONAL EXPOSURE LIMIT

US (ACGIH-2012): TLV-8h TWA: 10 mg/m<sup>3</sup>

Refer to any national measures that may be relevant.

UK: HSE EH40/2005:

Long-term exposure limit (8-hour TWA reference period): 10 mg/m<sup>3</sup>

(Total Inhalable Dust) Respirable dust particles:

US (ACGIH-2012): TLV-8h TWA: 3 mg/m<sup>3</sup>

UK: HSE EH40/2005:

Long-term exposure limit (8-hour TWA reference period): 4 mg/m<sup>3</sup>

(Respirable Dust)

### 8.2. EXPOSURE CONTROL

Appropriate engineering

controls

The substance is not classified for human health or for the environment, and is not PBT so that no exposure or risk characterisation is required. For tasks where the intervention of workers is required, th substance must be in accordance with good industrial hygienie and safety procedures.

### **Occupational exposure controls**

### **Personal protection**

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01/11/2024 Issue Date:

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

## SAFETY DATA SHEET

Product Code: MEA30P

PAGE 5 OF 8

Respiratory protection In case of risk of overexposure to dust, vapour or fumes (during product processing), it is

recommended that a local exhaust system is placed above the conversion equipment ( a fume hood)

and the working area must be properly ventilated.

Wear a suitable anti-dust respirator Recommended filter type: P1

Skin and body protection Where exposure is likely, protective clothing must be worn including gloves

Eye protection Goggles/spectacles

Other personal protection Safety non-slip shoes in areas where spills or leaks can occur.

**Industrial health measures** 

**General** use Local exhaust ventilation may be needed when working in a closed area

Use working clothing.

Do not store near food products. When using, do not eat or smoke.

**Environmental exposure** 

controls

Handle in accordance with good industrial hygiene nad safety procedures

#### SECTION 9

### **PHYSICAL/CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

**Appearance** Pelletes from a diameter of 2 to 5 mm

Physical state at 20°C

Colour Translucent, white opaque

Odour Odourless

Change in physical state

at 1013 hPa

Melting range (°C) 90 to 160 Flash point (ASTM D 1929)(°C) ± 340 Auto-ignition temperature (°C) > 350

Explosion limits (kg/m³):

Lower 0.015 (for polymer dust < 63  $\mu$ m)

Min. ignition energy at

20°C (mJ)

63

Vapour pressure at 20°C (hPa)

Density, mass at 20°C (kg/m³) 915 - 935 (ISO 1183)

Solubility in water at

20°C (mg/l)

Insoluble

(concentrated product)

Not applicable

Viscosity (mm<sup>2</sup>/s) Not applicable

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

## SAFETY DATA SHEET

Product Code: MEA30P

PAGE 6 OF 8

**9.2. OTHER INFORMATION** No information available

## SECTION 10 STABILITY AND REACTIVITY

**10.1. REACTIVITY** The product is combustible if heated above the flash point.

**10.2. CHEMICAL STABILITY** Stable under normal operating conditions of storage, handling and use

10.3. POSSIBILITY OF

HAZARDOUS REACTIONS

Dust may form an explosive mixture with air, ignited by sparks or sources of ignition

**10.4. CONDITIONS TO AVOID** Avoid proximity or contact with flames or sparks.

It is recommended not to heat at a temperature higher than 320 °C

10.5. INCOMPATIBLE MATERIALS Avoid contact with strong acids

halogens

10.6. HAZARDOUS

DECOMPOSITION PRODUCTS

Advice to prevent explosion avoid dust accumulation by use of filters in the pneumatic transport

equipment.

Thoroughly ventilate the working place.

All conductive materials must be electrically earthed.

In case of pneumatic alimentation, feed the extruders by aspiration, use preferably nitrogen as carrier

gas.

SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**ACUTE TOXICITY** Polyolefins are biologically inert.

**Ingestion** Because of its compositon, the product should be considered as pratically not harmful

**LOCAL EFFECT** 

**Inhalation** 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.

**Skin contact** Because of its composition, the product should be considered pratically as no irritating

In contact with hot material, may cause severe thermal burns

Thermal decomposition products are produced at elevated temperatures and these may be irritating

**Eye contact**Because of its composition, the product should be considered pratically as not irritating

Fine dust may cause irritation to ocular mucous.

Splashing of molten droplets causes ocular tissue burns.

Thermal decomposition products are produced at elevated temperatures and these may be irritating

**SPECIFIC EFFECTS** Polyolefins are biologically inert.

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

## SAFETY DATA SHEET

Product Code: MEA30P

PAGE 7 OF 8

#### **ECOLOGICAL INFORMATION** SECTION 12

Information on ecological

effects

Avoid losses to the environment whenever possible.

12.1. TOXICITY Because of its structure, the product should not be dangerous for aquatic life

12.2. PERSISTENCE AND

**DEGRADABILITY** 

Persistent in the environment

**Biodegradation** This substance is slowly biodegradable

BOD 5 (gO2/g) Below the detection limit

12.3. BIOACCUMULATIVE

**POTENTIAL** 

Potential bioaccumulation of the product in environment is very low

12.4. MOBILITY

Water / Air Volatile organic compound (VOC) content of this product is < at 0.3 % weight

Evaporation into air is practically nil

Soil and sediments Because of its physico-chemical properties, the product has a low soil mobility

Water the product, in case of accidental discharge, floats on the surface, is insoluble and its

evaporation into air is pratically nil

12.5. Results of PBT and vPvB

assessment

Not required

12.6. OTHER ADVERSE EFFECTS

No information available

### SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods According to local regulations.

Authorized disposal As refuse for reprocessing

do not dispose of by means of sinks, drains or into the immediate environment

May be used as fuel in suitably designed installations.

Incinerate with household refuse in a municipal solid waste incinerator plan.

Industrial waste number EC 07 02 13, 16 01 19, 17 02 03 & 20 01 39: plastics

#### SECTION 13 DISPOSAL CONSIDERATIONS

Road (ADR) / Rail (RID) Not restricted for transport.

**UN Number** Not applicable

Inland waterways (ADN) Not restricted for transport. Marine (IMO) Not restricted for transport. Air transport (ICAO / IATA) Not restricted for transport.

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# SAFETY DATA SHEET

Product Code: MEA30P

PAGE 8 OF 8

#### REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

NWG: non-hazardous to waters

The registration entries are for polymers only. For additives, please refer to QAPCO who will provide the necessary certification The product is a polymer, following the European regulation, registration on the EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required.

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory.

Listed on the AICS (the Australian Inventory of Chemical Substances).

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Filipino PICCS (Philippine Inventory of Chemicals and Chemical Substances) inventory.

Listed on the swiss inventory: SWISS

Listed on the People's Republic of China register: CRC-SEPA

(Chemical Registration Center for Chinese State Environmental Protection Administration)

15.2. Chemical safety assessment

The substance is not classified for human health or for the environment, and 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 substnace must be handled in accordance with good industrial hygiene and safety procedures.

### SECTION 16 OTHER INFORMATION

**Training advice** The use of this product requires specific training.

The user must receive all product information in order to handle the product safely

(personal protection equipment and best practice standards)

**Further information** No information available

Safety date sheet conforms to the Regulation (EU) N° 1907/2006

This information applies to the PRODUCT AS SUCH and conforming to specifications of OAPCO.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety date sheet and necessary for safety at work, the protection of health and the protection of environment.

The (\*) indicate the changes made with respect to the previous version.

## **END OF SDS**