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# SAFETY DATA SHEET

**Product Code: JA-111N**



## SECTION 1 PRODUCT IDENTIFICATION

**Product identifier**

**Product Name:** Livingstone Disposable Razors
This data safety sheets pertains to the following products:
Styrolution PS 145D GR2
Styrolution PS 147F GR2
Styrolution PS 147F GR21
Styrolution PS 158K GR2
Styrolution PS 158K GR21
Styrolution PS 168N GR21
Styrolution PS 168N Q534 GR21

**Relevant identified uses of the substance or mixture and uses advised against**

**General use:** Polymer
Basic material for chemical industry processing

## SECTION 2 HAZARD IDENTIFICATION

**Classification of the substance or mixture**

**GHS classification**

This substance is classified as not hazardous.

**Label elements**

**Hazard statements:** Not applicable

**Precautionary statements:** Not applicable

**Other hazards**

Dust: Can cause skin, eye and respiratory tract irritation.
In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.
The melted product can cause severe burns.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Substances**

**Chemical characterisation:** Polymer
(C8 H8) *n
styrene-homopolymer, GPPS

**CAS-Number:** 9003-53-6

**RTECS-Number:** WL6475000

**Additional information:** Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

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## SECTION 4 FIRST AID MEASURES

**In case of inhalation:** Provide fresh air. Put victim at rest and keep warm

**Following skin contact:** The melted product can cause severe burns.
Do not remove the product from the skin without medical assistance.
After contact with molten product, cool skin area rapidly with cold water. Consult physician.

**After eye contact:** Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an eye specialist in the event of irritation.

**After swallowing:** Do not induce vomiting. Rinse mouth with water.
Drink one or two glasses of water.
Never give an unconscious person anything through the mouth.

**Most important symptoms and effects, both acute and delayed**

Dust: Skin irritation, eye irritations and redness

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing media:**

Water spray jet, foam.
Only in case of small fires: extinguishing powder, carbon dioxide, Sand, earth.

**Extinguishing media which must not be used for safety reasons:**

Full water jet

**Special hazards arising from the substance or mixture**

In case of fire may be liberated: Smoke, styrene-monomer, aldehydes and acids (organic), carbon monoxide and carbon dioxide ($CO_2$).
In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

**Advice for firefighters**

**Special protective equipment for firefighters:**

Wear self-contained breathing apparatus to prevent exposure to poisonous gases that may develop.

**Additional information:** Cool endangered containers with water jetspray.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.

**Environmental precautions**

Do not allow to penetrate into soil, waterbodies or drains

**Methods and material for containment and cleaning up**

Avoid generation of dust. Remove all sources of ianition.
Collect dr and place in appropriate containers for disposal. Subsequent cleaning.

**Additional information:** Particular danger of slipping on spilled product on the ground.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling**

**Advices on safe handling:** Provide adequate ventilation, and local exhaust as needed. Do not breathe dust.
In the case of the formation of dust: Withdraw by suction.
Molten material: Avoid contact with the substance.

**Precautions against fire and explosion:**

Take precautionary measures against static discharges. Keep away from sources of ignition. Use grounding equipment. Use explosion-proof equipment and non-sparking tools/utensils. Avoid open flames.
In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed.

**Dust explosion risk:** Class 1

**Storage**

**Requirements for storerooms and containers:**

Store in a well-ventilated place. Keep container tightly closed.
Protect against heat /sun rays.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Additional information:** The product contains very low levels of residual monomers and process chemicals (styrene and ethylbenzene) that may be evolved during thermal processing, along with possible decomposition products. As the identity and levels of these impurities evolved will depend upon the processing conditions (temperature etc. it is the responsibility of the user to determine the adequacy of any protection or safety measures.

**Exposure controls**

**Additional information:** Provide good ventilation in the work area. Additional controls are not normally necessary when handing the polymer.
Thermal extrusion: Provide local exhaust ventilation to ensure that the workplace exposure limit is not exceeded.
Use of respiratory protection may be necessary during maintenance activities.
See also information in chapter 7, section storage.

**Personal protection equipment**
**Occupational exposure controls**

**Respiratory protection:** In case of dust formation:
Use filter type A-P2 according to EN 14387.

**Hand protection:** Protective gloves according to EN 374.
Protective gloves made of fabric or leather.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time
In case of melting: Impervious heat protective gloves according to EN 407
Glove material: Leather
Observe glove manufacturer's instructions concerning penetrability and breakthrough time

**Eye protection:** Tightly sealed goggles according to EN 166.

**Body protection:** Wear suitable protective clothing.

**General protection and hygiene measures:**
Do not breathe vapours. Keep away from sources of ignition.
Wash hands before breaks and after work.
In case of dust formation: Particular danger of slipping on spilled product on the ground.

## SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | Physical state at 20˚C and 101.3 kPa: solid<br>Form: granulate<br>Colour: colourless |
| **Odour:** | weak |
| **Odour threshold:** | not available |
| **pH value:** | not applicable |
| **Melting point/freezing point:** | 105˚C up to 135˚C |
| **Initial boiling point and boiling range:** | No data available |
| **Flash point/flash point range:** | Not applicable |
| **Evaporation rate:** | No data available |
| **Flammability:** | No data available |
| **Explosion limits:** | LEL (Lower Explosion Limit): not applicable |
| **Vapor pressure:** | Not applicable |
| **Vapour density:** | No data available |
| **Density:** | at 20 °C: approx. 1050 kg/m$^3$= (ISO 1183) |
| **Water solubility:** | insoluble |
| **Partition coefficient: n-octanol/water:** | not relevant |
| **Auto-ignition temperature:** | > 427 °C |
| **Thermal decomposition:** | > 300 °C |

**Additional information**

| | |
|---|---|
| **Viscosity, dynamic:** | not applicable |
| **Explosive properties:** | In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed. |
| **Oxidizing characteristics:** | Not oxidising |
| **Bulk density:** | approx. 600 kg/m³ |
| **Drop point/drop range:** | 79 °C up to 127 °C |
| **Additional information** | Molar mass: 10000 - 300000 g/mol |

## SECTION 10 STABILITY AND REACTIVITY

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Reactivity:** | No data available |
| **Chemical stability:** | Product is stable under normal storage conditions. |
| **Possibility of hazardous reactions:** | In case of dust formation (Fine dust): May form explosible dust-air mixture if dispersed. |
| **Conditions to avoid:** | Avoid open flames.<br>Avoid dust formation. |
| **Incompatible materials:** | Strong oxidizing agents, Gasoline, aldehydes, ketone |
| **Hazardous decomposition products:** | When greatly overheated, material may release hazardous decomposition products: monomers, hydrocarbons, gases/vapours, cyclic low molecular weight oligomers, carbon monoxide and carbon dioxide. |
| **Thermal decomposition:** | > 300 °C |

## SECTION 11 TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

| | |
|---|---|
| **Acute toxicity:** | LD50 Rat, oral: > 2000 mg/kg<br>LD50 Rabbit, dermal: > 2000 mg/kg |

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**Additional information**

**Toxicological effects:**

Acute toxicity (oral): Based on available data, the classification criteria are not met. Mild acute toxicity
Acute toxicity (dermal): Based on available data, the classification criteria are not met. Mild acute toxicity
Acute toxicity (inhalative): Based on available data, the classification criteria are not met. Mild acute toxicity. May cause irritations.
Skin corrosion/irritation: Lack of data.
Dust: Can cause skin, eye and respiratory tract irritation.
Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
Serious eye damage/irritation: Lack of data.
Dust: Can cause skin, eye and respiratory tract irritation.
Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
Sensitisation to the respiratory tract: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.
Skin sensitisation: Based on available data, the classification criteria are not met. Not sensitising
Germ cell mutagenicity/Genotoxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Lack of data. The chemical structure of the polymer does not suggest a specific alert for such an effect.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Dust: Can cause skin, eye and respiratory tract irritation.
Processing, thermal hazards: Vapours: Can cause skin, eye and respiratory tract irritation.
Specific target organ toxicity (repeated exposure): Lack of data. Chronic toxic effects are not expected. The product has not been tested. The statement is derived from products of similar structure or composition.
Aspiration hazard: Lack of data.

**Symptoms**

Dust: Skin irritation, eye irritations and redness
The melted product can cause severe burns.

## SECTION 12 ECOLOGICAL INFORMATION

**Toxicity**

**Aquatic toxicity:** No evidence of aquatic toxicity

**Persistence and degradability**

**Further details:**

Biodegradation: Product is not readily biodegradable.
Degradation at UV-radiation/sunlight
Environmental half-life period: >=100 days (estimated)

**Mobility in soil**

Product is not soluble in water.
Substance is heavier than water and sinks.
mobility in soil: low

**Additional ecological information**

**General information:** Do not allow to enter into ground-water, surface water or drains.

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## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product**

**Recommendation:** With due observance of the regulations laid down by the local authorities, this must be brought to a suitable incineration plant/waste disposal site.

**Contaminated packaging**

**Recommendation:** Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

## SECTION 14 TRANSPORT INFORMATION

**UN number**

**Product**

**ADR/RID, IMDG, IATA-DGR:** not applicable

**Sea transport (IMDG)**

**Proper shipping name:** Not restricted

**Marine pollutant:** no

**Air transport (IATA)**

**Proper shipping name:** Not restricted

**Further information** No dangerous good in sense of these transport regulations.

## SECTION 15 REGULATORY INFORMATION

**National regulations - Korea**

**Industrial Safety and Health Act** not applicable

**Chemicals Control Act** not applicable

**National regulations - Japan**

ENCS: listed; MITI 6-120

**Further regulations, limitations and legal requirements**

No data available

## SECTION 16 OTHER INFORMATION

**Reason for Revision:** To bring to date

# END OF SDS