

Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 1 OF 9

SECTION 1 PRODUCT IDENTIFICATION

Product Name Livingstone Syringe
Recommended Use A medical device that is used to inject fluid into, or withdraw fluid from, the body.

SECTION 2 HAZARD IDENTIFICATION

Barrel Part of Syringe

GHS Classification No data available. This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the SDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

GHS Label Element This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety and Health Act (ISHA). It is not regulated for the SDS creation and labeling by the provision of Article 41 Paragraph 1 of the ISHA.

Other hazards which do not result in classification

No information available.

Plunger Part of Syringe

Hazard Classification None

GHS Label Elements

Symbols Non needed according to GHS classification criteria.

Signal Word Non needed according to GHS classification criteria.

Hazard Statements Non needed according to GHS classification criteria.

Other hazards which do not result in classification

NFPA Health = 1, Flammability = 1, Reactivity = 0

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Barrel Part of Syringe

Chemical Name	Common Name	CAS-No.
Polypropylene	Polypropylene	9003-07-0

Plunger Part of Syringe

Chemical Name	Common Name	CAS-No.
Polypropylene	1-Propene, Homopolymer	9003-07-0
Additives	-	-

Issue Date: 20/02/2002
Last Revision Date: 19/01/2024
Superseded Date: 26/02/2019
Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 2 OF 9

SECTION 4 FIRST AID MEASURES

Barrel Part of Syringe

General Advice

No hazards which require special first aid measures.

In case of eye contact

- Flush eyes with water as a precaution.
- Remove contact lenses.
- Protect unharmed eye.
- Keep eye wide open while rinsing.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off with soap and plenty of water.

If inhaled

- Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
- If symptoms persist, call a physician.

If swallowed

- Clean mouth with water and drink afterwards plenty of water.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

None known.

Protection of first-aiders

No data available

Notes to physician

No data available

Plunger Part of Syringe

In case of eye contact

- Flush eyes thoroughly with water if irritation occurs.
- Seek medical advice.

In case of skin contact

- Remove contaminated clothes, rinse skin with plenty of water.
- Seek medical advice.

If inhaled

- Remove from exposure to fresh air immediately.
- If not breathing, give artificial respiration, refer to medical attention immediately.

If swallowed

- Never give anything by mouth to an unconscious person.
- Seek medical advice immediately.

Notes to physician

Treat symptomatically and supportively.

SECTION 5 FIRE FIGHTING MEASURES

Barrel Part of Syringe

Suitable and Unsuitable Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No data available

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Issue Date: 20/02/2002
Last Revision Date: 19/01/2024
Superseded Date: 26/02/2019
Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 3 OF 9

Specific Hazards During Firefighting

Hazardous Combustion Products No data available

Specific Extinguishing Methods Standard procedure for chemical fires

Special Protective Equipment for Firefighters

In the event of fire, wear self-contained breathing apparatus.

Plunger Part of Syringe

Suitable Extinguish Media Use water fog, foam, dry chemical or CO₂

Specific Hazards Arising from the Chemical

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for fire-fighters

- Use proper personal protective equipment.
- Wear self contained breathing apparatus for fire fighting if necessary.
- Keep people away. Isolate fire and deny unnecessary entry.
- Cool surroundings with water to localize fire zone.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Barrel Part of Syringe

Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Environmental Precautions No special environmental precautions required.

Methods and materials for containment and cleaning up

- Sweep up and shovel.
- Keep in suitable, closed containers for disposal.

Plunger Part of Syringe

Personal Protection and Protective Equipment

Isolate the hazard area. Use appropriate safety equipment.

Environmental Precautions Do not allow material to contaminate ground water system.

Clean-up and Removal Method Sweep up then place into a suitable container for disposal.

Issue Date: 20/02/2002
Last Revision Date: 19/01/2024
Superseded Date: 26/02/2019
Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 4 OF 9

SECTION 7 HANDLING AND STORAGE

Barrel Part of Syringe

Advice on Safe Handling	For personal protection see section 8. No special handling advice required.
Conditions for Safe Storage	Keep container tightly closed in a dry and well ventilated
Materials to Avoid	No special restrictions on storage with other products.
Recommended Storage Temperature	No data available
Storage Period	No data available
Packaging Material	No data available

Plunger Part of Syringe

Precautions for Safe Handling	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation
Conditions for Safe Storage	Store in a cool, dry well-ventilated area. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Barrel Part of Syringe

Componentents with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering Measures	No data available
Personal Protective Equipment	
Respiratory Protection	No personal respiratory protective equipment normally required.
Eye Protection	Safety glasses
Hand Protection	Remarks For prolonged or repeated contact use protective gloves.
Skin and Body Protection	Protective suit
Hygiene Measures	General industrial hygiene practice.

Plunger Part of Syringe

Exposure limits of the chemical substance, biological exposure limits and etc

Not applicable

Appropriate Engineering Controls	Ventilation; Good general ventilation should be sufficient for most conditions. Check the recommended threshold exposure limits.
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Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 5 OF 9

Personal Protective Equipment

Respiratory Protection

Use an approved air-purifying respirator when vapours are generated at increased temperatures or when dust is present.

Eye Protection

Wear safety glasses and chemical goggles.

Hand Protection

Wear gloves with insulation for thermal protection.

Body Protection

Wear approved chemical protective clothes.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Barrel Part of Syringe

Appearance Solid form

Melting Point/Range 160°C

Upper/Lower Explosion Limit Solubility(ies)

Water Solubility Insoluble

Density 0.9 g/cm³

Auto-Ignition Temperature 330°C

Plunger Part of Syringe

Appearance Solid(translucent to white pellet or powder).

Odour Odourless.

Odour Threshold Not available.

pH Not applicable.

Melting Point/Freezing Point 120 ~ 170°C

Initial Boiling Point and Range Not available.

Flash Point Not available.

Evaporation Rate Not applicable.

Flammability(solid, gas) Not available.

Upper/Lower Flammable or Explosive Limits Not applicable.

Vapour Pressure Not applicable.

Solubility Insoluble in water.

Vapour Density Not applicable.

Specific Gravity (H₂O=1) 0.89 ~ 0.91

Partition Coefficient (n-octanol/water) Not applicable.

Auto-Ignition Temperature > 350°C

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Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 6 OF 9

Decomposition Temperature Not applicable.
Viscosity Not applicable.
Molecular Weight > 10,000

SECTION 10 STABILITY AND REACTIVITY

Barrel Part of Syringe

Chemical stability and possibility of hazardous reactions

- Stable under recommended storage conditions.
- No decomposition if stored and applied as directed.
- No hazards to be specially mentioned.

Conditions to Avoid No data available
Incompatible Materials No data available
Hazardous Decomposition Products No data available

Plunger Part of Syringe

Chemical Stability Stable under normal temperature and pressure.
Conditions to Avoid Keep away from heat, sparks and flame.
Materials to avoid Strong oxidizing agents
Hazardous Decomposition Products Irritating and toxic fumes and gases, unidentified organic compounds.

SECTION 11 TOXICOLOGICAL INFORMATION

Barrel Part of Syringe

Information On Likely Routes Of Exposure No data available

Health Hazard Information

Acute Toxicity No data available
Skin Corrosion/Irritation According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious Eye Damage/Irritation According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
Respiratory Skin Sensitisation No data available
Germ Cell Mutagenicity No data available
Reproductive Toxicity No data available
Carcinogenicity No data available

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Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 7 OF 9

STOT - Single Exposure	No data available	Aspiration Toxicity	No data available
STOT - Repeated Exposure	No data available	Further Information	No data available

Plunger Part of Syringe

Information on the likely routes of exposure

Dust inhalation maybe cause cough.

Delayed and immediate effects and also chronic effects from short or long term exposure

Acute Toxicity	- LD50 > 8000 mg/kg(rat)	Skin Sensitization	Not available.
Skin Corrosion/Irritation	Not available.	Carcinogenicity	Not listed in IARC.
Serious Eye Damage/Irritation	Not available.	Reproductive Toxicity	Not available.
Respiratory Sensitization	Not available.	Aspiration Hazard	Not available.
Germ Cell Mutagenicity	Not listed in IARC.		
Specific target organ systemic toxicity(single exposure)	Not available.		
Specific target organ systemic toxicity(repeated exposure)	Not available.		

SECTION 12 ECOLOGICAL INFORMATION

Barrel Part of Syringe

Ecotoxicity	No data available	Mobility in Soil	No data available
Persistence and Degradability	No data available	Other Adverse Effects	No data available
Bioaccumulative Potential	No data available		
Additional Ecological Information	There is no data available for this product.		

Plunger Part of Syringe

Ecotoxicity	No data available	Mobility in Soil	No data available
Persistence and Degradability	No data available	Other Adverse Effects	No data available
Bioaccumulative Potential	No data available		

SECTION 13 DISPOSAL CONSIDERATIONS

Barrel Part of Syringe

Disposal Methods

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Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 8 OF 9

Waste From Residues	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal
Disposal Precautions	Dispose of in accordance with local regulations.
Plunger Part of Syringe	
Disposal Methods	All disposal practices must be in compliance with all applicable federal, state and/or local laws and regulations.
Disposal Precautions	Dispose of waste in accordance with local regulations.

SECTION 14 TRANSPORT INFORMATION

Barrel Part of Syringe

International Regulation

UNRTG	Not regulated as a dangerous good		
IATA-DGR	Not regulated as a dangerous good		
IMDG-Code	Not regulated as a dangerous good		
UN Number	Not applicable	Packing Group	Not applicable
Proper Shipping Name	Not applicable	Labels	Not applicable
Class	Not applicable	EmS Code Marine	Not applicable
Subsidiary Risk	Not applicable	Pollutant	Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations	Refer to section 15 for specific national regulation.
Special Precautions for the User	Not classified as dangerous in the meaning of transport regulations

Plunger Part of Syringe

UN Number	Not applicable	Packing Group	Not applicable
Proper Shipping Name	Not applicable	Marine Pollutant	Not applicable
Special Precautions for the User	Not applicable	Class	Not applicable

Issue Date: 20/02/2002
 Last Revision Date: 19/01/2024
 Superseded Date: 26/02/2019
 Version Number: 06

SAFETY DATA SHEET

Product Code: DSL003MLSC

PAGE 9 OF 9

SECTION 15 REGULATORY INFORMATION

Barrel Part of Syringe

National Regulatory Information

Industrial Safety and Health Act

Harmful Substances Prohibited from Manufacturing	Not relevant
Harmful Substances Required Permission for Manufacture	Not relevant
Controlled Hazardous Substances Not relevant	Not relevant
Controlled Substances Subject to Environment Monitoring	Not relevant
Controlled Substances Subject to Health Examination	Not relevant

Toxic Chemicals Control Act

Observational Chemicals	Not relevant	Toxic Chemicals	Not relevant
Toxic Release Inventory	Not relevant	Restricted Chemicals	Not relevant
Accident Precaution Chemicals	Not relevant	Prohibited Chemicals	Not relevant

Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

Wastes Control Act

Industrial waste
 Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries

No data available

Plunger Part of Syringe

Korea	Not regulated.
US-OSHA	Not regulated.
US-CERCLA	Not regulated.

SECTION 16 OTHER INFORMATION

Sources of Reference Materials	Globally Harmonized System of classification and labeling of chemicals(GHS), First revised edition, United Nations. IARC(International Agency for Research on Cancer)
Reason for Revision	To bring to date

END OF SDS

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