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PRODUCT IDENTIFICATION SECTION 1

**Product Name:** Livingstone Syringe

**Recommended Use** A medical device that is used to inject fluid into, or withdraw fluid from, the body.

HAZARD IDENTIFICATION

**Barrel Part of Syringe** 

No data available. This material is not classified as hazardous under the Article 39 Paragraph 1 of the **GHS Classification** 

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.

This material is not classified as hazardous under the Article 39 Paragraph 1 of the Industrial Safety **GHS Label Element** 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

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	-	-

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#### SECTION 4

#### **FIRST AID MEASURES**

# **Barrel Part of Syringe**

**General Advice** No hazards which require special first aid measures.

• Flush eyes with water as a precaution.

· Remove contact lenses. In case of eye contact

• Protect unharmed eye.

Keep eye wide open while rinsing.

• Take off contaminated clothing and shoes immediately. In case of skin contact

• Wash off with soap and plenty of water.

• Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If inhaled

· If symptoms persist, call a physician.

• Clean mouth with water and drink afterwards plenty of water.

If swallowed · 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.

If swallowed

**Protection of first-aiders** No data available

Notes to physician No data available

**Plunger Part of Syringe** 

• Flush eyes thoroughly with water if irritation occurs. In case of eye contact

Seek medical advice.

• Remove contaminated clothes, rinse skin with plenty of water. In case of skin contact

· Seek medical advice.

• Remove from exposure to fresh air immediately. If inhaled

If not breathing, give artificial respiration, refer to medical attention immediately.

• Never give anything by mouth to an unconscious person.

Seek medical advice immediately.

Treat symptomatically and supportively. Notes to physician

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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#### 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.

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### ( SECTION 7 ) H

#### 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 No data available

Temperature

Storage Period

No data available

Packaging Material

No data available

Plunger Part of Syringe

Precautions for Safe Handling Conditions for Safe Storage

 $Wash\,thoroughly\,after\,hand ling.\,Avoid\,contact\,with\,eyes,\,skin, and\,clothing.\,Avoid\,ing estion\,and\,inhalation$ 

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** 

# Compontents 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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**Personal Protective Equipment** 

Use an approved air-purifying respirator when vapours are generated at increased temperatures or **Respiratory Protection** 

when dust is present.

**Eve 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 0.9 g/cm3 Density 330°C **Auto-Ignition Temperature** 

# **Plunger Part of Syringe**

**Appearance** Solid(translucent to white pellet or powder).

Odour Odourless. Not available. **Odour Threshold** Ηα Not applicable. 120 ~ 170°C **Melting Point/Freezing Point Initial Boiling Point and Range** Not available. **Flash Point** Not available. **Evaporation Rate** Not applicable. Flammability(solid, gas) Not available. Upper/Lower Flammable or Not applicable.

**Explosive Limits Vapour Pressure** Not applicable. Insoluble in water. Solubility **Vapour Density** Not applicable. Specific Gravity (H2O=1)  $0.89 \sim 0.91$ 

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

> 350°C **Auto-Ignition Temperature** 

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**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**

Stable under normal temperature and pressure. Chemical Stability

**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

According to the classification criteria of the European Union, the product is not considered as being a Skin Corrosion/Irritation

skin irritant.

According to the classification criteria of the European Union, the product is not considered as being an Serious Eye Damage/Irritation

eve irritant.

**Respiratory Skin Sensitisation** No data available Reproductive Toxicity No data available **Germ Cell Mutagencity** No data available Carcinogenicity No data available

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STOT - Single ExposureNo data availableAspiration ToxicityNo data availableSTOT - Repeated ExposureNo data availableFurther InformationNo 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 Corrosion/Irritation Not available. **Skin Sensitization** Not available. Serious Eye Damage/Irritation Not available. Carcinogenicity Not listed in IARC. **Reproductive Toxicity** Not available. **Respiratory Sensitization** Not available. **Germ Cell Mutagenicity** Not listed in IARC. **Aspiration Hazard** Not available.

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** 

EcotoxicityNo data availableMobility in SoilNo data availablePersistence and DegradabilityNo data availableOther Adverse EffectsNo data available

Bioaccumulative Potential No data available

Additional Ecological There is no data available for this product.

Plunger Part of Syringe

EcotoxicityNo data availableMobility in SoilNo data availablePersistence and DegradabilityNo data availableOther Adverse EffectsNo data available

**Bioaccumulative Potential** No data available

( SECTION 13 ) DISPOSAL CONSIDERATIONS

**Barrel Part of Syringe** 

# Disposal Methods

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**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

**Packing Group UN Number** Not applicable Not applicable **Proper Shipping Name** Not applicable Labels Not applicable Not applicable Not applicable **EmS Code Marine** Class **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 NumberNot applicablePacking GroupNot applicableProper Shipping NameNot applicableMarine PollutantNot applicableSpecial Precautions for the UserNot applicableClassNot applicable

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### 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 **Contolled Substances Subject to Environment Monitoring** Not relevant **Contolled 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 Prohibited Chemicals** Not relevant 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** 

Not regulated. Korea **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