

**ListShield™ (LMP-102™)****Listeria monocytogenes-specific phage preparation****Section 1: Identification****Product identifier**

Product name: ListShield™  
(LMP-102™)

Catalog #: 01LP

**Recommended use of the chemical and restrictions on use**

Phage preparation effective against *Listeria monocytogenes*

**Supplier's details**

Intralytix, Inc.  
8681 Robert Fulton Drive  
Columbia, MD 21046

**Emergency phone number**

1-877-ITX-PHAGE  
Monday–Friday 9:00 AM – 5:00 PM

**Section 2: Hazard identification****Classification of substance or mixture**

Not a hazardous substance or mixture

**GHS label elements, including precautionary statements**

Not a hazardous substance or mixture

**Other hazards which do not result in classification**

None

**Section 3: Composition/information on ingredients****Mixture**

Bacteriophages in aqueous 0.1M sodium chloride solution

**Component list**

Component	% composition	CAS #	Classification
Water	> 99.4	7732-18-5	Not applicable
Sodium chloride	0.58	7647-14-5	Not applicable
<i>Listeria monocytogenes</i> – specific phages	< 0.01	Not applicable	Not applicable

#### Section 4: First-aid measures

##### Description of first-aid measures

###### If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

###### In case of skin contact:

Wash off with soap and water.

###### In case of eye contact:

Flush eyes with water as a precaution.

###### If swallowed:

Never give anything by mouth to an unconscious person. If swallowed in excess, rinse mouth with water as a precaution.

##### Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11.

##### Indication of any immediate medical attention and special treatment needed:

No data available

#### Section 5: Fire-fighting measures

##### Suitable extinguishing media

No restrictions

##### Specific hazards arising from the chemical

None

##### Special protective actions for fire-fighters

None

#### Section 6: Accidental release measures

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

For personal protection, see Section 8.

##### Environmental precautions

No special environmental precautions required

##### Method and materials for containment and cleaning up

Keep in suitable closed containers. Mop up or absorb with an inert dry material and place in an appropriate waste disposal container. No specific spill kit is required for this product

## Section 7: Handling and storage

### Precautions for safe handling

For precautions, see Section 2

### Conditions for safe storage, including any incompatibilities

Keep container closed, refrigerated at 2-8°C, and protected from light.

## Section 8: Exposure controls / personal protection

### Control parameters

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

General industrial hygiene practice

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

When using as an aerosol, wear eye protection and provide access to eye/face flushing equipment.

#### Skin protection

A lab coat and/or gloves may be worn when handling this solution.

#### Respiratory protection

When airborne exposure limits are exceeded or ventilation is inadequate, use appropriate NIOSH approved respiratory protection equipment. Respiratory protection programs are subject to 29 CFR § 1910.134.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Clear/opalescent liquid
Odor	None
Odor threshold	No data available
pH	6.5 – 7.5
Melting point / freezing point	May start to solidify at –0.1°C (31.8°F) (WATER)
Initial boiling point and boiling range	The lowest known value is 99.9°C (211.8°F) (WATER).
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available

Vapor density	No data available
Relative density	1.01 g/cm <sup>3</sup>
Solubility	Soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

## Section 10: Stability and reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

No data available

### Hazardous decomposition products

No data available

## Section 11: Toxicological information

### Acute toxicity

No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available

**Section 12: Ecological information****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Section 13: Disposal considerations****Disposal methods****Product**

Material does not have an EPA Waste Number and is not a listed waste, however, always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

**Packaging**

Package may be recycled, if such disposal options exist.

**Section 14: Transport information****UN Number**

Not relevant

**UN Proper Shipping Name**

Not relevant

**Transport hazard class**

Not hazardous

**Packing group**

Not relevant

**Environmental hazards**

Not relevant

**Special precautions**

Keep refrigerated / cool during shipment

**Section 15: Regulatory information****TSCA**

Not applicable

**SARA 302**

Not applicable

**SARA 311/312**

Not applicable

**SARA 313**

Not applicable

**CERCLA**

Not applicable

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**US State Right-to-Know Regulations**

Not applicable

**Section 16: Other information****Revision date**

July 13, 2020

**Version**

4

**Further information**

Notice to Reader

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