

**SalmoFresh™**  
**Salmonella Specific Phage Preparation****Section 1. Identification**

<b>Product Name:</b>	SalmoFresh™
<b>Catalog Number:</b>	02SP
<b>Manufacturer:</b>	Intralytix, Inc. Columbus Center 701 E. Pratt St. Baltimore, MD 21202
<b>Recommend use:</b>	Phage preparation effective against <i>Salmonella</i>
<b>For More Information, Call:</b>	1-877-ITX-PHAGE Monday–Friday 9:00 AM – 5:00 PM

**Section 2. Hazards Identification**

**Physical State and Appearance:** Clear, colorless to pale-amber liquid.

**Emergency Overview:**

**Potential Health Effects from:**

<b>Inhalation:</b>	Inhalation is unlikely to cause injury; excessive amounts of vapor or mist may cause mild irritation in the nose and/or throat.
<b>Skin Contact:</b>	Contact is unlikely to cause injury.
<b>Eye Contact:</b>	Contact is unlikely to cause injury; excessive amounts of contact may cause mild irritation.
<b>Ingestion:</b>	Ingestion is unlikely to cause injury.
<b>Routes of Entry:</b>	Ingestion. Inhalation during spray operations.

**Section 3. Composition/ Information on Ingredients**

<b>Component % by weight</b>	<i>Salmonella</i> – specific phages < 0.00001 100mM sodium chloride solution > 99.9
<b>CAS Number:</b>	Not applicable.

Because phages are not hazardous chemicals, the information provided in the MSDS is primarily for the buffer carrier of SalmoFresh™, 100mM sodium chloride.

**Section 4: First-Aid Measures**

<b>Eye Contact:</b>	Flush with water for 15 minutes.
<b>Skin Contact:</b>	Wash with soap and water.
<b>Inhalation:</b>	Wear a mask or respirator when using product as an aerosol. If exposed to excessive levels of vapors or mists, remove to fresh air.
<b>Ingestion:</b>	If swallowed in excess, wash out mouth with water.
<b>Symptoms:</b>	None determined.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product:</b>	Non-flammable.
<b>Auto-ignition:</b>	Not applicable.
<b>Flash Points:</b>	Not applicable.
<b>Flammable Limits:</b>	Not applicable.
<b>Fire Fighting Instructions:</b>	Not applicable.
<b>Protective Clothing (Fire):</b>	Not applicable.

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak:</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal container.
<b>Large Spill and Leak:</b>	Mop up or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Spill Kit Information:</b>	No specific spill kit is required for this product.

**Section 7. Handling and Storage**

<b>Handling:</b>	Keep container closed when not in use.
<b>Storage:</b>	Keep container in a cool (2–6°C), dark, UV-protected area. Carefully read and follow all label directions.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls:</b>	When using as an aerosol, provide exhaust ventilation to minimize airborne concentrations of vapors.
<b>Personal Protection</b>	
<b>Eyes:</b>	When using as an aerosol, don chemical goggles and provide access to eye/face flushing equipment.
<b>Body:</b>	A lab coat may be worn when handling this solution.
<b>Respiratory:</b>	When airborne exposure limits are exceeded or ventilation is inadequate, use appropriate NIOSH approved respiratory protection equipment.

**Hands:** Respiratory protection programs are subject to 29 CFR § 1910.134. Gloves may be worn when handling this solution. Please refer to glove manufacturer for recommendations.

**Feet:** Closed-toe shoes of non-porous material with adequate metatarsal coverage should be worn when handling this solution.

**Component Exposure Limits**

**Bacteriophage** No OSHA Vacated PELs are listed for this component.  
**Saline solution, 100mM** No OSHA Vacated PELs are listed for this component.

**Section 9. Physical and Chemical Properties**

**Odor:** Odorless.  
**Color:** Clear/opalescent.  
**Physical State and Appearance:** Liquid.  
**Molecular Weight:** Not applicable.  
**Molecular Formula:** Not applicable.  
**pH:** 6.5 – 7.5  
**Boiling/Condensation Point:** The lowest known value is 99.9°C (211.8°F) (WATER).  
**Melting/Freezing Point:** May start to solidify at -0.1°C (31.8°F) based on data for WATER.  
**Vapor Pressure:** Not available.  
**Vapor Density (vs. air):** Not available.  
**Density (vs. water):** 1.005–1.007 g/cm<sup>3</sup>  
**Decomposition Temperature:** Not available.  
**Evaporation Rate:** (0.36 (WATER) compared to (n-BUTYL ACETATE=1)  
**Solubility:** Soluble in Water.  
**Viscosity:** Not available.

**Section 10. Stability and Reactivity**

**Stability and Reactivity:** Stable when used appropriately.  
**Conditions of Instability:** Not available.  
**Incompatibility with Various Substances:** Not available.  
**Rem/Incompatibility:** Not available.  
**Hazardous Decomposition Products:** Not available.  
**Hazardous Polymerization:** Will not occur.

**Section 11. Toxicological Information**

**Toxicity: Acute oral toxicity (LD50):** >90 mL/kg [Rat] (Saline).  
**Acute toxicity of the vapor (LC50):** > 42 g/m<sup>3</sup>/1hr [Rat] (Saline).  
**Chronic Effects on Humans:** None

<b>Acute Effects on Humans:</b>	None
<b>Irritancy:</b>	Draize Test: Rabbit, eye – 100 mg Mild (Saline); Rabbit, skin – 50mg/24hr Mild
<b>Sensitization:</b>	Not available.
<b>Carcinogenic Effects:</b>	This material is not known to cause cancer in animals or humans (Saline).
<b>Toxicity to Reproductive System:</b>	Not available.
<b>Teratogenic Effects:</b>	Not available.
<b>Mutagenic Effects:</b>	Not available.

### Section 12. Ecological Information

<b>Ecotoxicity:</b>	Not toxic.
<b>BOD5 and COD:</b>	Not available.
<b>Toxicity of the Products of Biodegradation:</b>	The product itself and its products of degradation are not toxic.

### Section 13. Disposal Considerations

<b>EPA Waste Number:</b>	Not available.
<b>Treatment:</b>	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.

### Section 14. Transportation Information

<b>Transport Hazard Classification:</b>	Not Hazardous
<b>DOT Classification:</b>	Not applicable.
<b>TDG Classification:</b>	Not available.
<b>IMO/IMDG Classification:</b>	Not applicable.
<b>ICAO/IATA Classification:</b>	Not applicable.

### Section 15. Regulatory Information

<b>U.S. Federal Regulations:</b>	Components of this product are not listed on the TSCA Inventory or TSCA Inventory status cannot be confirmed.
<b>CERCLA and SARA Regulations (40 CFR 355, 370, 372):</b>	This product does not contain any chemicals subject to reporting requirements of SARA Section 313.
<b>State Regulations:</b>	Pennsylvania RTK: Not applicable Massachusetts RTK: Not applicable New Jersey: Not applicable

Illinois:	Not applicable
Michigan:	Not applicable
Minnesota:	Not applicable
Louisiana:	Not applicable
California prop. 65:	Not applicable.

## Section 16. Other Information

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