

SAFETY DATA SHEET (SDS)

1. Product Identification:

Product Name:	MS2 Bacteriophage
Catalog Number:	0810052
Product ID Number (CAS #):	Not Applicable.
Intended use of the product:	For research or further manufacturing only. Not for use in diagnostic procedures.
Manufacturer:	ZeptoMetrix Corporation 878 Main Street
Address:	Buffalo, New York 14202 United States of America
Telephone:	ZeptoMetrix: (716) 882-0920 or 1 (800) 274-5487 (US Toll Free)

2. Hazard(s) Identification:

Classification:	This product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazard Pictograms	None.
Signal word:	None.
Hazard statements:	None.
Precautionary statement:	None. POTENTIAL BIOHAZARD.
Other hazards:	May present unknown hazards and should be handled as if capable of transmitting infectious agents. Use universal precautions with proper personal protective equipment, proper engineering controls and use within the parameters of the purchaser's safety program.
Unknown acute toxicity:	No information available.

3. Composition/Information on Ingredients:

<u>Component Name</u>	<u>CAS Number</u>	<u>Concentration</u>	<u>Classification</u>
Trade Secret – Undisclosed Identity	Not Applicable	Not Applicable	Not Applicable

4. First Aid/Emergency Measures:

<u>Description of first aid measures</u>	
First-aid measures general:	If you feel unwell, seek medical advice.
First-aid measures after Eye Contact:	Rinse cautiously with copious amounts of water for several minutes.
First-aid measures after Skin Contact:	Remove contaminated clothing and immediately rinse skin with copious amounts of water followed by washing with soap and copious amounts of water.
First-aid measures after Ingestion:	If the person is unconscious, seek emergency medical attention: never give anything by mouth to an unconscious person. If the person is conscious, wash mouth out with copious amounts of water and call a physician. Do not induce vomiting unless directed to do so by a physician.
First-aid measures after Inhalation:	If person is unconscious, seek emergency medical attention. If person is conscious, remove to fresh air and call a physician.
<u>Most important symptoms and effects, both acute and delayed</u>	
Symptoms/injuries after Eye Contact:	Seek medical assistance if persist.
Symptoms/injuries after Skin Contact:	Seek medical assistance if persist.
Symptoms/injuries after Ingestion:	Seek medical assistance if persist.
Symptoms/injuries after Inhalation:	Seek medical assistance if persist.
Indication of any immediate medical attention and special treatment needed : No special measures required.	

5. Fire and Explosion Measures:

Extinguishing Media	
Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding area.
Unsuitable extinguishing media:	Use an extinguishing agent suitable for the surrounding area.
Special hazards arising from the substance or mixture	
Fire hazard:	No known hazards.
Explosion hazard:	No known hazards.
Reactivity:	No known hazards.
Advice for firefighters	
Firefighting instructions:	Exercise caution when fighting a fire.
Protection during firefighting:	Firefighters should wear protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measures:

Personal precautions, protective equipment and emergency procedures	
General measures:	Use appropriate personal protective equipment (PPE) and appropriate laboratory procedures.
For non-emergency personnel	
Protective equipment:	Use appropriate personal protective equipment (PPE).
Emergency procedures:	Use appropriate emergency laboratory procedures.
For emergency responders	
Protective equipment:	Use appropriate personal protective equipment (PPE).
Emergency procedures:	Use appropriate emergency procedures.
Methods and material for containment and cleaning up	
For containment:	Contain material in accordance to State and Federal regulations.
Methods for cleaning up:	Follow and dispose of material in accordance to State and Federal waste disposal regulations.

7. Handling and Storage:

Precautions for safe handling:	Handle in accordance with all Biosafety Level 1 procedures. Please reference the 5 th edition of Biosafety in Microbiological and Biomedical Laboratories (BMBL) for a detailed discussion on biological safety (http://www.cdc.gov/biosafety/publications/bmb15/index.htm).
Storage conditions:	Keep container closed when not in use. Do not store in a frost-free freezer.
Incompatible products:	No Data Available.
Incompatible materials:	No Data Available.
Storage:	Recommended storage temperature -65°C or below.

8. Exposure Controls and Personal Protection:

Appropriate engineering controls:	Use universal precautions. Product may present unknown biohazard.
Personal Protective Equipment:	Use laboratory coat, protective gloves, safety glasses and suitable protective clothing.
Pictograms:	
Eye/Face protection:	Wear in accordance with good laboratory practices and safety procedures.
Skin and body protection:	Wear in accordance with good laboratory practices and safety procedures.
Respiratory protection:	Wear in accordance with good laboratory practices and safety procedures.
Hand protection:	Wear in accordance with good laboratory practices and safety procedures.
Mechanical protection:	Wear in accordance with good laboratory practices and safety procedures.
Special work practices:	Follow purchaser's safety program.

9. Physical and Chemical Properties:

Physical State:	Liquid at room temperature.
Appearance/color:	When thawed, clear to slightly cloudy liquid.
Odor:	No Data Available.
Odor threshold:	No Data Available.
pH:	No Data Available.
Melting point/freezing point:	No Data Available.
Boiling point:	No Data Available.
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:	No Data Available.
Solubility(ies):	No Data Available.
Partition coefficient:	No Data Available.
Auto-ignition temperature:	No Data Available.
Decomposition temperature:	No Data Available.
Viscosity:	No Data Available.
Other information:	Mix gently before use.

10. Stability and Reactivity:

Reactivity:	No Data Available.
Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No Data Available.
Incompatible materials:	No Data Available.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information:

Skin corrosion/irritation:	No Data Available.
Eye damage/irritation:	No Data Available.
Respiratory damage/irritation:	No Data Available.
Ingestion damage/irritation:	No Data Available.
Specific target organ toxicity (single exposure):	No Data Available.
Specific target organ toxicity (repeated exposure):	No Data Available.
Numerical measure of toxicity:	No Data Available.
Symptoms/injuries after skin contact:	No Data Available.
Symptoms/injuries after eye contact:	No Data Available.
Symptoms/injuries after inhalation:	No Data Available.
Symptoms/injuries after ingestion:	No Data Available.

12. Ecological Information:

Ecotoxicity:	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.

13. Disposal Information:

Waste disposal recommendations:	Dispose of material in accordance to local, State and Federal waste disposal regulations.
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14. Transport Information:

UN number	Not Regulated.
UN proper shipping name	Not Regulated.
Hazard Class	Not Applicable.
Packing group	Not Applicable.
Environmental hazards	Not Applicable.
Transport in bulk (According to MARPOL 73/78 and IBC Code)	Not Applicable.
Special precautions	May require Biosafety Level 1 Laboratory.

15. Regulatory Information:

SARA 311/312:	Not listed.
Canadian WHMIS Classification:	No Information Available.
REACH (Regulation (EC) 1907/2006):	This product complies with or is exempted from the registration process.
RoHS (Directives 2011/65/EU and 2015/863):	This product complies with or is exempted from the registration process.
WEEE (Directive 2012/19/EU):	This product complies with or is exempted from the registration process.
California Proposition 65:	This product does not contain chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

16. Other Information:

Preparation Date	2018/04/12
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All materials and mixtures may present unknown hazards and should be handled and used with caution. When necessary or appropriate, independent opinion regarding the risk of handling or exposure should be obtained from trained professionals.