

MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:	Reveal® Buffered <i>Listeria</i> Enrichment Broth (BLEB), Bulk BLEB		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.:	517/372-9200
	620 Leshar Place	Fax No.:	517/372-0108
	Lansing, MI 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised: March 2008		Chemtrec: (800) 424-9300 Outside US and Canada: (703) 527-3887	

Section 2. Composition / Information on Hazardous Ingredients			
This product is a mixture of the substances listed below with the addition of nonhazardous materials.			
Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
Sodium Phosphate	7558-79-4	19.1%	Xi (Irritant)
Sodium Chloride, NaCl	7647-14-5	10.6%	Xi (Irritant)
Potassium Phosphate	7758-11-4	8.2%	Xi (Irritant)
Cycloheximide	66-81-9	0.11%	T (Toxic)

Section 3. Health Hazard Identification	
Health Hazards: <i>(Acute and Chronic)</i>	Information pertaining to particular dangers for man and environment. R 25, Toxic if swallowed. R 61, Harmful. May cause harm to the unborn child. R 68, Possible risk of irreversible effects through inhalation and in contact with skin. R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	General Information: Remove breathing apparatus only after contaminated clothing have been completely removed.
	Ingestion: If swallowed, seek medical attention immediately. Show physician product label or MSDS.
	Inhalation: If inhaled, supply fresh air or oxygen. If required, provide artificial respiration, and seek medical attention. In case of unconsciousness place patient on side position for transportation.
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5. Fire and Explosion Hazard Data	
Flash Point (Method Used): N/A	Flammable Limits: LEL – N/A UEL – N/A
Extinguishing Media: Use CO ₂ , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Protective Equipment: No special measures required.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases may be produced.	

Section 6. Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.

Clean-up Methods: Absorb material, ventilate area, and wash spill site after material has been cleaned up.

Section 7. Handling and Storage

Handling: Protect against physical damage. Ensure good ventilation / exhaustion. Prevent formation of dust.

Storage: Requirements to be met by storerooms and receptacles: 2 - 30°C
Do not store together with oxidizing agents. Store in cool, dry conditions in well sealed containers.

Other Precautions: Keep respiratory protective device available.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring:

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed.
Wash hands before and after entering laboratory.
Immediately remove all contaminated clothing.

Breathing Equipment: In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory.

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Appearance: N/A

Boiling Point: Not determined

Density: Not determined

Flash Point: Not applicable

Melting Point: Not determined

Auto Igniting: Product is not self-igniting

Solubility in Water: Soluble

Danger of explosion: Product does not present an explosion hazard.

pH: 7.3 ± 0.2 @ 25°C

Solvent Content: Organic solvents – 0.0%

Solids Content: 100.0%

Section 10. Stability and Reactivity			
Stability:	Unstable		Conditions to Avoid: No decomposition if used according to specifications.
	Stable	X	
Incompatibility (Materials to Avoid): Incompatible with strong oxidizers and acids.			
Hazardous Decomposition or Byproducts: Chlorine, Phosphorus oxides, Nitrogen oxides, and Carbon dioxide.			
Hazardous Polymerization:	May Occur		No dangerous reactions known.
	Will Not Occur	X	

Section 11. Toxicological Information			
LD/LC50 values that are relevant: LD ₅₀ : ORL-RAT, 2 mg/kg, Cycloheximide (66-81-9)			
Carcinogenicity Classification: IARC (International Agency for Research on Cancer): Cycloheximide (66-81-9), 2A NTP (National Toxicology Program): Cycloheximide (66-81-9), R			
Irritant: Irritant to eyes, skin, and mucous membranes.			
Sensitization: No sensitizing effects known.			
Subacute to chronic toxicity: Target organs: Reproductive system, Central Nervous System, eye/ear, musculoskeletal system, urogenital system. Carcinogenesis; blood leukemia, lymphomas, aplastic anemia.			
Additional toxicological information: Toxic. Irritant. Product is suspected to cause damage to fertility.			

Section 12. Ecological Information			
Ecotoxicity Tests: Water Hazard Class 2: Hazardous for water. The ecological effects have not been thoroughly investigated, but currently none have been identified.			

Section 13. Disposal Considerations			
Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Must not be disposed of with solid waste. RCRA Hazardous Waste: No Contact a licensed professional waste disposal service to dispose of this material if questions arise.			
Container Information: Do not remove labels from containers until they have been cleaned.			

Section 14. Transport Information			
DOT Regulations: Not Regulated			
Land Transport ADR/RID (cross-border): Not Regulated			
Maritime Transport IMDG: Not Regulated			
Marine Pollutant: No			
Air Transport ICAO-TI and IATA-DGR: Not Regulated			

Section 15. Regulatory Information**EU Regulations: Hazard Symbol(s):****Cycloheximide:** T (Toxic)**Sodium Phosphate:** Xi (Irritant)**Sodium Chloride:** Xi (Irritant)**Potassium Phosphate:** Xi (Irritant)**Risk Phrases:**

R 25, Toxic if swallowed.

R 61, May cause harm to the unborn child.

R 68, Possible risk of irreversible effects through inhalation and in contact with skin.

R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.

Safety Phrases:

S 7, Keep container tightly closed.

S 22, Do not breathe dust.

S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 / 56, Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

S 36 / 37, Wear suitable protective clothing and gloves.

S 45, In case of accident or if you feel unwell, seek medical advice immediately.

S 53, Avoid exposure- obtain special instructions before use.

S 60, This material and its container must be disposed of as hazardous waste.

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.