

MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

Product Name or Identity: Reveal® 2.0 for <i>Listeria</i> Test System			
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 2011		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
MOPS	71119-22-7	28.3%	Xi (Irritant)
Sodium Chloride	7647-14-5	6.4%	Xi (Irritant)
Potassium Phosphate	7758-11-4	3.2%	Xi (Irritant)
Sodium Pyruvate	113-24-6	12.7%	Xi (Irritant)
Magnesium Sulfate	7487-88-9	6.2%	Xi (Irritant)

Section 3. Health Hazard Identification

Health Hazards: <i>(Acute and Chronic)</i>	Information pertaining to particular dangers for man and environment. R 36 / 37 / 38, Irritating to eyes, respiratory system, and skin.
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Section 4. First Aid Measures

Emergency / First Aid Procedures:	<p>Ingestion: If swallowed, seek medical attention immediately. Wash out mouth with water, provided person is conscious. Show physician product label. Never give anything by mouth to an unconscious person.</p> <p>Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention immediately. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen.</p> <p>Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention immediately.</p> <p>Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse.</p>
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Section 5. Fire and Explosion Hazard Data

Flash Point (Method Used): Closed Cup, N/A	Flammable Limits: LEL – N/A, UEL – N/A
Extinguishing Media: Use alcohol foam, dry chemical, or carbon dioxide. Water may be ineffective.	
Protective Equipment: Firefighters should wear protective equipment and self-contained breathing apparatus.	
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, gloves, and eye protection. Wear self-containing breathing apparatus, rubber boots, and heavy rubber gloves. Place contaminated material in a chemical waste container.
Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.
Clean-up Methods: Contact safety officer if questions arise and ventilate area.

Section 7. Handling and Storage

Handling: Protect against physical damage. Ensure good ventilation / exhaustion and do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not use if skin is cut or scratched.

Storage: Keep container tightly closed. Storage area should be cool, dry, and away from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues.

Other Precautions: Keep respiratory protective device available.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring:

Not Applicable

OSHA-PEL: 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. In the event of use above flash point, use in closed systems. Do not use compressed air by filling, discharging or handling the product. Proper ventilation required. Safety shower and eye bath. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment:

Keep away from food, beverages, and feed.

Wash hands before and after entering laboratory.

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.

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

Section 9. Physical and Chemical Properties

Appearance and Odor: Powder is free-flowing and tan.

Boiling Point: Not determined

Melting Point: Not determined

pH: 7.2 ± 0.2

Section 10. Stability and Reactivity

Stability:

Unstable

Stable

X

Conditions to Avoid: Stable under normal storage conditions.

Incompatibility (Materials to Avoid): Incompatible with strong oxidizing agents, reducing agents, and strong bases.

Hazardous Decomposition or Byproducts: Carbon dioxide (CO₂), Carbon monoxide (CO), Phosphorus oxides, Magnesium oxide, or Chloride.

Hazardous Polymerization:

May Occur

Will Not Occur

X

Conditions to Avoid: Incompatible materials.

Section 11. Toxicological Information

LD/LC50 values that are relevant:

Acute Toxicity: Not Applicable

Carcinogenicity Classification: Not Applicable

IARC (International Agency for Research on Cancer) – Not Listed

NTP (National Toxicology Program) Not Listed



Eye: Produces irritation.
Ingestion: May cause gastrointestinal irritation.
Inhalation: Irritant if inhaled, coughing possible and breathing difficulties may be observed.
Chronic: Prolonged or repeated skin contact may cause dermatitis.
Additional toxicological information: Irritant.

Section 12. Ecological Information

Ecotoxicity Tests: 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.

RCRA P-Series: None listed.

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

Air Transport ICAO-TI and IATA-DGR:

Not Regulated

Section 15. Regulatory Information

EU Regulations, Hazard Symbol(s):

MOPS: Xi (Irritant)

Sodium Chloride: Xi (Irritant)

Potassium Phosphate: Xi (Irritant)

Sodium Pyruvate: Xi (Irritant)

Magnesium Sulfate: Xi (Irritant)

Risk Phrases:

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

Safety Phrases:

S 24 / 25 / 26 / 36, Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

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.