Part Number: 9805

Reveal 2.0 for *Salmonella*, Complete System with RV and M-Broth

This is a diagnostic test kit that is comprised of several individual components, each of which may have its own Safety Data Sheet. If a component does not have a Safety Data Sheet included here the item falls under Hazard Communication [1910.1200(b)(6)], *Articles*, and does not require a Safety Data Sheet.

For any questions please contact Neogen Corporation.

The following Safety Data Sheets are included in this file:
Reveal RV Medium
Reveal Revive Medium
Reveal M-Broth
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
   - Product Name: Reveal Revive Medium
   - Product Part Number: 9705, 9708

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Use of the substance/preparation: For use the rapid recovery of Salmonella in food and animal feed.
   - Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
   - Name of Manufacturer: Neogen Corporation
   - Address of Manufacturer: 620 Lesher Place
     Lansing, Michigan 48912
     USA
   - Telephone: 517/372-9200
   - Email: Foodsafety@neogen.com

1.4 Emergency telephone number
   - Emergency Telephone: Chemtrec: 1 (800) 424-9300
     Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
   - Classification (29 CFR 1910.1200)
     - Not classified as hazardous for supply
   - Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
     - Not classified as hazardous for supply
   - Classification (WHMIS 2015 HPR)
     - Not classified as hazardous for supply
   - Additional information: For full text of Hazard-statements see Section 16.

2.2 Label elements
   - Signal Word: None
   - Symbols: None
   - Hazard phrases
     None
   - Precautionary Phrases
     Keep container tightly closed.
     Do not breathe dust.
     Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
   - May be mildly irritating to skin and eyes.
   - May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
   - General
     In case of doubt, or when symptoms persist, seek medical attention.
     In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
SECTION 4  First aid measures (continued)
- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.
- Contact with eyes
  If substance has gotten into eyes, immediately wash out with plenty of water for at least 15
  minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.
- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.
- Inhalation
  If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable
  for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in
  Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures
5.1 Extinguishing media
- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- Decomposition products may include carbon oxides.
- May form explosive dust/air mixtures.
- See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- May include carbon oxides.

SECTION 6  Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
- Shut off all ignition sources.
- Use non-sparking hand tools.
- Avoid raising dust.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid scattering in the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international
  regulations.
SECTION 6  Accidental release measures (continued)

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.

SECTION 7  Handling and storage

7.1 Precautions for safe handling
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances.

7.3 Specific end use(s)
- For use the rapid recovery of Salmonella in food and animal feed.

SECTION 8  Exposure controls/personal protection

8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9  Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Homogenous, free-flowing powder, yellow to yellow brown
- Odor: No information available
- pH: No information available
- Melting point/Range: No information available
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is free-flowing powder
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer
 SECTION 9  Physical and chemical properties (continued)

9.2 Other information
- No information available

 SECTION 10  Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Avoid contact with moisture.
- Keep away from heat and sources of ignition.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

 SECTION 11  Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- ATEmix = 6,6667 mg/kg (oral)
- Contact with skin
  May cause redness and irritation in sensitive individuals.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
- Inhalation
  May cause irritation in sensitive individuals.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No information available

 SECTION 12  Ecological information

12.1 Toxicity
- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available
SECTION 12 Ecological information

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13 Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

14.1 UN Number
Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not Classified

14.6 Special precautions for user
- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not Classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable
SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312
No SARA Hazards
State Right-to-Know
Massachusetts
Sodium Phosphate Dibasic CAS No. 7558-79-4
New Jersey
Sodium Phosphate Dibasic CAS No. 7558-79-4
Pennsylvania
Sodium Phosphate Dibasic CAS No. 7558-79-4

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL)  Listed
  Non-Domestic Substances List (NDSL)  Not listed

SECTION 16  Other information

Date of Preparation:  May 2016
Revision:  Rev. 01
Replaces:  Rev. 0

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.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name: Reveal RV Medium
- Product Part Number: 9237, 9715, 9716

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For the rapid recovery of Salmonella in food, animal feed, and environmental samples
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Acumedia Manufacturers, Inc.
- Address of Manufacturer: 740 East Shiawassee
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
Classification (29 CFR 1910.1200)
- Toxic to Reproduction, Cat. 2 (H361)
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Reproductive Toxicity, Cat. 2 (H361)
Classification (WHMIS 2015 HPR)
- Toxic to Reproduction, Cat. 2 (H361)

Additional information: For full text of Hazard statements: see Section 16.

2.2 Label elements

GHS08

- Signal Word: Warning
- Symbols: GHS08
- Hazard phrases
  Suspected of damaging fertility or the unborn child.
- Precautionary Phrases
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Use personal protective equipment as required.
  If exposed or concerned: Get medical advice/attention.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances
SECTION 3  Composition/information on ingredients (continued)

3.2 Mixtures

This product is a mixture of the substances listed below with the addition of non-hazardous materials

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Concentration</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>H-Statements</th>
<th>Symbols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malachite green oxalate</td>
<td>&lt;1%</td>
<td>2437-29-8</td>
<td>219-441-7</td>
<td>H302, H318, H361, H400, H410</td>
<td>GHS05, GHS06, GHS08, GHS09</td>
</tr>
</tbody>
</table>

SECTION 4  First aid measures

4.1 Description of first aid measures
- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.
- Contact with eyes
  If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.
- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.
- Inhalation
  If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- Decomposition products may include carbon oxides, phosphorous compounds, chlorine, and magnesium oxides.
- May form explosive dust/air mixtures.
- See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- May include carbon oxides.
SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Shut off all ignition sources.
- Use non-sparking hand tools.
- Avoid raising dust.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid scattering in the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.

SECTION 7  Handling and storage

7.1 Precautions for safe handling
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances.

7.3 Specific end use(s)
- For the rapid recovery of Salmonella in food, animal feed, and environmental samples

SECTION 8  Exposure controls/personal protection

8.1 Control parameters
- There are no recommended or established controls for this product.

8.2 Exposure controls
- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

Gloves  Safety Glasses  Lab Coat
SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Homogenous, free-flowing powder, gray to light blue
- Odor: No information available
- pH: No information available
- Melting point/Range: No information available
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is free-flowing powder
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Avoid contact with moisture.
- Keep away from heat and sources of ignition.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides, phosphorus compounds, chlorine, and magnesium oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
- Contact with skin
  May cause redness and irritation in sensitive individuals.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
- Ingestion
  Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
- Inhalation
  May cause irritation in sensitive individuals.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
SECTION 11  Toxicological information (continued)
- Reproductive toxicity
  Suspected of damaging the unborn child.
  Reproductive toxicity, category 2 (malachite green oxalate)
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No information available

SECTION 12  Ecological information
12.1 Toxicity
**Magnesium Chloride**
Toxicity to fish
Static test LC\textsubscript{50} – Pimephales promelas (Fathead minnow) – 2119.3 mg/L-96h
Toxicity to daphnia and other aquatic invertebrates
Static test LC\textsubscript{50} – Daphnia magna (Water flea) – 548.4 mg/L-48h
Toxicity to algae
Growth inhibition EC\textsubscript{50} – Desmodemus subspicatus (Scenedesmus subspicatus) > 100mg/L-72h (OECD Test Guideline 201)
Toxicity to bacteria
Respiration inhibition EC\textsubscript{50} – Sludge treatment >900mg/L-3h (OECD Test Guideline 209)

**Sodium Chloride**
Toxicity to fish
LC\textsubscript{50} – Lepomis macrochirus (Bluegill) – 5840 mg/L-96h
Toxicity to daphnia and other aquatic invertebrates
NOEC – 1500 mg/L-7d
LC\textsubscript{50} – Daphnia magna (Water flea) – 1661 mg/L-48h

12.2 Persistence and degradability
- No information available
12.3 Bioaccumulation Potential
- No information available
12.4 Mobility in soil
- No information available
12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available
12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13  Disposal considerations
13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.
13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
SECTION 14  Transport information

14.1 UN Number
   Not classified as hazardous for transport

14.2 UN Proper Shipping Name
   - Not applicable

14.3 Transport hazard class(es)
   - Not applicable

14.4 Packing group
   - Not applicable

14.5 Environmental hazards
   - Not Classified

14.6 Special precautions for user
   - Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
   - Not Classified

14.8 Domestic Surface Transport (US DOT)
   - Proper Shipping Name: Not applicable
   - DOT UN No.: Not applicable
   - DOT Hazard Class: Not applicable
   - DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
   - Proper Shipping Name: Not applicable
   - ADR UN No.: Not applicable
   - ADR Hazard Class: Not applicable
   - ADR Packing Group: Not applicable
   - Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
   - Proper Shipping Name: Not applicable
   - IMDG UN No.: Not applicable
   - IMDG Hazard Class: Not applicable
   - IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
   - Proper Shipping Name: Not applicable
   - ICAO UN No.: Not applicable
   - ICAO Hazard Class: Not applicable
   - ICAO Packing Group: Not applicable

SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
   - This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 Chemical Safety Assessment
   - No information available

15.3 United States Regulatory Information
   SARA 302 Components
   No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

   SARA 313 Components
   The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
SECTION 15  Regulatory information (continued)

SARA 311/312

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

**Toxic Substance Control Act (TSCA)**
All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.4 Canadian Regulatory Information

- **Inventory Status**
  - Domestic Substances List (DSL)  Listed
  - Non-Domestic Substances List (NDSL)  Not listed

SECTION 16  Other information

Date of Preparation:  May 2016
Revision:  Rev. 0
Replaces:  New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet:  H302: Harmful if swallowed. H318: Causes serious eye damage. H361: Suspected of damaging fertility or the unborn child. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

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.
SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier
- Product Name: Reveal M-Broth
- Product Part Number: 9722

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Use of the substance/preparation: For use with Reveal Test Systems.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet
- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Lesher Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number
- Emergency Telephone: Chemtrec: 1 (800) 424-9300
  Outside USA and Canada: +1 (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture
- Classification (29 CFR 1910.1200): Not classified as hazardous for supply
- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not classified as hazardous for supply
- Classification (WHMIS 2015 HPR): Not classified as hazardous for supply

Additional information: For full text of Hazard-statement see Section 16.

2.2 Label elements
- Signal Word: None
- Symbols: None
- Hazard phrases
  None
- Precautionary Phrases
  Keep container tightly closed.
  Do not breathe dust.
  Avoid contact with eyes, skin, or clothing.

2.3 Other hazards
- May be mildly irritating to skin and eyes.
- May be mildly irritating to respiratory system.

SECTION 3 Composition/information on ingredients

3.1 Substances
3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures
- General
  In case of doubt, or when symptoms persist, seek medical attention.
  In general, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
SECTION 4  First aid measures (continued)

- Contact with skin
  Remove contaminated clothing.
  Wash affected area with plenty of soap and water.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.

- Contact with eyes
  If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.

- Ingestion
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.

- Inhalation
  If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed
- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
- Treat symptomatically.

SECTION 5  Fire-fighting measures

5.1 Extinguishing media
- In case of fire: use foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- Decomposition products may include carbon oxides.
- See Section 10.

5.3 Advice for firefighters
- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products
- May include carbon oxides.

SECTION 6  Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Shut off all ignition sources.
- Avoid raising dust.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions
- Do not allow to enter public sewers and watercourses.
- Avoid scattering in the environment.

6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up.
- Place in sealable containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international regulations.

6.4 Reference to other sections
- See Section 7 for storage. For disposal, see Section 13.
SECTION 7 Handling and storage

7.1 Precautions for safe handling
- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, smoke, or apply cosmetics when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities
- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances.

7.3 Specific end use(s)
- For use with Reveal Test Systems.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters
- This product contains no substances >1% with occupational exposure limit values.

8.2 Exposure controls
- Eyewash bottles should be available.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
- Appearance: Homogenous powder with small lumps, light beige
- Odor: No information available
- pH: No information available
- Melting Point/Range: No information available
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Completely soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is powder
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information
- No information available
SECTION 10 Stability and reactivity

10.1 Reactivity
- No information available

10.2 Chemical stability
- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions
- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid
- Avoid contact with moisture.

10.5 Incompatible materials
- None known

10.6 Hazardous Decomposition Products
- Decomposition products may include carbon oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects
- No experimental test data available for the mixture
  - $\text{ATEmix} = 3,798 \text{mg/kg (oral)}$
- Contact with skin
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
  Based on available data, the classification criteria are not met.
- Ingestion
  Product is not toxic, but may cause nausea or other gastrointestinal symptoms in sensitive individuals if swallowed.
  Based on available data, the classification criteria are not met.
- Inhalation
  May cause respiratory irritation in sensitive individuals if inhaled.
  Based on available data, the classification criteria are not met.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity
  No evidence of mutagenic effects.
- Teratogenicity
  No evidence of teratogenic effects.

SECTION 12 Ecological information

12.1 Toxicity
**Citric acid trisodium dehydrate**
Toxicity to algae
$EC_{50} – 1800-3200 \text{mg/L-96h}$

**Sodium Chloride**
Toxicity to fish
$LC_{50} – \text{Lepomis macrochirus (Bluegill)} – 5840 \text{mg/L-96h}$
Toxicity to daphnia and other aquatic invertebrates
$LC_{50} – \text{Daphnia magna (Water flea)} – 1661 \text{mg/L-48h}$

12.2 Persistence and degradability
- No information available

12.3 Bioaccumulation Potential
- No information available
SECTION 12 Ecological information (continued)

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13 Disposal considerations

13.1 Waste treatment methods
- Disposal should be in accordance with local, regional, national, and/or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

13.2 Classification (REACH)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined.
  Since this product is used in several industries, no Waste Code can be provided by the supplier.
  The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not classified

14.6 Special precautions for user
- Not classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable
SECTION 14  Transport information (continued)

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.2 Chemical Safety Assessment
- No information available

15.3 United States Regulatory Information
   SARA 302 Components
   No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
   SARA 313 Components
   The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
   SARA 311/312
   No SARA Hazards
   Toxic Substance Control Act (TSCA)
   All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.4 Canadian Regulatory Information
- Inventory Status
  Domestic Substances List (DSL)  Listed
  Non-Domestic Substances List (NDSL)  Not listed

SECTION 16  Other information

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