Kit SDS Cover Sheet

Product Name: Reveal® 3-D for Gluten
Item No(s): 8505

This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). Articles, and otherwise immobilized and inaccessible chemicals, do not have a Safety Data Sheet in this packet.

Kit Components:

   Swab Wetting Solution
   Extraction Buffer
   Lateral Flow Devices

For product information, please contact your Neogen Corporation Representative. For further information regarding this SDS, please contact SDS@neogen.com.
SAFETY DATA SHEET  
according to WHS and ADG requirements

Swab Wetting Solution

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Swab Wetting Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>24368</td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th>Product Use</th>
<th>[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Intended for laboratory use only. Do not use components from one kit with any other kit.</td>
</tr>
</tbody>
</table>

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>Neogen Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>620 Lesher Place</td>
</tr>
<tr>
<td></td>
<td>Lansing MI 48912</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://www.neogen.com">www.neogen.com</a></td>
</tr>
<tr>
<td>Telephone</td>
<td>517-372-9200/800-234-5333</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:SDS@neogen.com">SDS@neogen.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS

No Significant Hazard.

2.2. Label elements

Hazard Statement
No Significant Hazard

2.3. Other hazards

Other hazards
Contains oxidising substance(s) at <0.1%. Contains material(s) which may be harmful to aquatic organisms, including fish and invertebrates.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Swab Wetting Solution

3.2. Mixtures

EC 1272/2008

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium nitrate</td>
<td>10377-60-3</td>
<td>233-826-7</td>
<td></td>
<td></td>
<td>0 - 0.5%</td>
<td>Ox. Sol. 2: H272; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;</td>
</tr>
</tbody>
</table>

Description

Concentrations listed are not product specifications.

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.

Eye contact

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.

Skin contact

Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.

Ingestion

Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

May cause irritation to respiratory system.

Eye contact

May cause irritation to eyes.

Skin contact

May cause irritation to skin.

Ingestion

Ingestion may cause nausea and vomiting.

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

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Contains oxidising substance(s) at <0.1%. Contains substance(s) which are hazardous to the environment. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3. Advice for firefighters

Do not breathe vapour or spray mist. Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the
6.1. Personal precautions, protective equipment and emergency procedures

working area. Avoid prolonged or repeated exposure.

6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures between 2 °C and 8 °C. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions. Do NOT allow to freeze.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits known.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Eye / face protection
Use as appropriate: Suitable eye protection.

Skin protection - Hand protection
Use as appropriate: Chemical-resistant gloves made of any waterproof material.

Skin protection - Other
Use as appropriate: Protective clothing.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.
8.2. Exposure controls

**Occupational exposure controls**

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless/Slight</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

9.2. Other information

VOC (Volatile organic compounds) Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Keep away from extreme temperatures.

10.5. Incompatible materials

Avoid contact with: Reducing agents.
### 10.6. Hazardous decomposition products

- Carbon oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological Factor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
<td>Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>May cause irritation to skin.</td>
</tr>
<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td>May cause irritation to eyes.</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitisation</strong></td>
<td>May cause allergic reactions in susceptible people.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>No mutagenic effects reported.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No components at &gt;0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at &gt;0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at &gt;0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>No teratogenic effects reported.</td>
</tr>
<tr>
<td><strong>STOT-single exposure</strong></td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td><strong>STOT-repeated exposure</strong></td>
<td>No Significant Hazard.</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>No Significant Hazard.</td>
</tr>
<tr>
<td><strong>Repeated or prolonged exposure</strong></td>
<td>Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.</td>
</tr>
</tbody>
</table>

#### 11.1.2. Mixtures

See Section(s) 3 for further information.

#### 11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

#### 11.1.4. Toxicological Information

- No data available

#### 11.1.5. Hazard Class

See Section(s) 2 and 14 for further information.

#### 11.1.6. Classification Criteria

Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

#### 11.1.7. Information on likely routes of exposure

- Eye contact. Skin contact. Ingestion. Inhalation.

#### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

#### 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

#### 11.1.10. Interactive effects

- No data available.
### 11.1.1. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

### 11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

### 11.1.13. Other information

No data available.

---

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data is available on this product.

#### 12.3. Bioaccumulative potential

No data is available on this product.

#### Partition coefficient

<table>
<thead>
<tr>
<th>Substance</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swab Wetting Solution</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No data is available on this product.

#### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

#### 12.6. Other adverse effects

Contains material(s) which may be harmful to aquatic organisms, including fish and invertebrates. Specific test data for the mixture is not available.

---

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

**Disposal methods**

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

**Disposal of packaging**

Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

---

### SECTION 14: Transport information

#### 14.1. UN number

The product is not classified as dangerous for carriage.
14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<table>
<thead>
<tr>
<th>Regulations</th>
<th>This document has been prepared in accordance with the requirements set out in the Work Health and Safety Regulation 2017 under the Work Health and Safety Act 2011.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Inventories/Right-to-Know Lists:</td>
<td>--International--. Basel Convention (Hazardous Waste): Not applicable. Chemical Weapons Convention (OPCW): This product contains no hazardous substances at or above published reporting levels. Kyoto Protocol Greenhouse Gases: This product contains no hazardous substances at or above published reporting levels. Mercosur Agreement: Applicable. Montreal Protocol: This product contains no hazardous substances at or above published reporting levels. The Rotterdam Convention: This product contains no hazardous substances at or above published reporting levels. The Stockholm Convention: This product contains no hazardous substances at or above published reporting levels.</td>
</tr>
</tbody>
</table>
| | --Asia and the ASEAN Nations--. Catalog of Hazardous Chemicals (China): [2309, Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)]. Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision, Distribution, and Control of Hazardous Substances: This product contains no hazardous substances at or above published reporting levels. Air Pollution Control Law (Japan): This product contains no hazardous substances at or above published reporting levels. Chemical Substances Control Law (Japan): This product contains no hazardous substances at or above published reporting levels. Industrial Safety and Health Act, Dangerous Substances (Japan): Dangerous substance, Oxidizing, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)]. Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels. Soil Contamination Countermeasures Act (Japan): This product contains no hazardous substances at or above published reporting levels. Water Pollution Control Law (Japan): Harmful substance, [Magnesium nitrate (nitrate compounds),
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No. 10377-60-3 (<0.1%).

Chemical Substances Subject to Permission (Korea): This product contains no hazardous substances at or above published reporting levels.

Restricted or Prohibited Substances (Korea): This product contains no hazardous substances at or above published reporting levels.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This product contains no hazardous substances at or above published reporting levels.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969): All ingredients listed or exempt., No restrictions.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product contains no hazardous substances at or above published reporting levels.

Hazardous Substances Act (Thailand): This product contains no hazardous substances at or above published reporting levels.

Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)].

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt., No restrictions.

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt., No restrictions.

--European Union (EU) and the United Kingdom (UK)--.

Authorisation List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.

Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.

Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America--.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions.

Toxic Substances Control Act (TSCA): All ingredients listed or exempt.

Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.

New Jersey Worker and Community Right to Know Act: This product contains no hazardous substances at or above published reporting levels.

Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.

Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.

California Proposition 65: This product does not contain reportable substances at >0,0001% concentration.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:
1 - Description.
**Swab Wetting Solution**

**Other Information**

1 - Product Use.
2 - Manufactured By:
3 - Other hazards.
4 - 2.1.2. Classification - GHS.
5 - Description.
6 - 5.2. Special hazards arising from the substance or mixture.
7 - 7.2. Conditions for safe storage, including any incompatibilities.
8 - 8.1. Control parameters.
10 - 10.5. Incompatible materials.
11 - Acute toxicity.
12 - 12.6. Other adverse effects.
15 - Chemical Inventories/Right-to-Know Lists:

**Acronyms**

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).
CAS No.: Chemical Abstracts Service.
CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organisation.
IMDG: International Maritime Dangerous Goods.
LD: Lethal dose.
OEL: Occupational exposure limit.
OSHA: U.S. Occupational Safety and Health Administration.
PEL: Permissible Exposure Limit.
REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
SVHC: Substance of very high concern.
US DOT: United States Department of Transportation.
VOC: Volatile Organic Compound.
WEL: Workplace Exposure Limit.

**Text of Hazard Statements in Section 3**

Ox. Sol. 2: H272 - May intensify fire; oxidiser.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.

**Further Information**

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.
SAFETY DATA SHEET
according to WHS and ADG requirements

Rapid Extraction Buffer, Type 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Rapid Extraction Buffer, Type 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>T502415G</td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th>Product Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;</td>
<td></td>
</tr>
</tbody>
</table>

Intended for laboratory use only. Do not use components from one kit with any other kit.

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company</th>
<th>Neogen Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>620 Lesher Place</td>
</tr>
<tr>
<td></td>
<td>Lansing MI 48912</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://www.neogen.com">www.neogen.com</a></td>
</tr>
<tr>
<td>Telephone</td>
<td>517-372-9200/800-234-5333</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:SDS@neogen.com">SDS@neogen.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS

No Significant Hazard.

2.2. Label elements

Hazard Statement

No Significant Hazard

2.3. Other hazards

Other hazards

Contains oxidising substance(s) at <0.1%. Contains material(s) which may be harmful to aquatic organisms, including fish and invertebrates.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Rapid Extraction Buffer, Type 9

3.2. Mixtures

EC 1272/2008

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium nitrate</td>
<td></td>
<td>10377-60-3</td>
<td>233-826-7</td>
<td></td>
<td>0 - 0.5%</td>
<td>Ox. Sol. 2: H272; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;</td>
</tr>
<tr>
<td>Polyethylene octylphenyl ether</td>
<td></td>
<td>9002-93-1</td>
<td>618-344-0</td>
<td></td>
<td>0 - 0.5%</td>
<td>Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;</td>
</tr>
</tbody>
</table>

Description

Concentrations listed are not product specifications.

Included on the Candidate List of Substances of Very High Concern: [Polyethylene octylphenyl ether, CAS No. 9002-93-1 (<0.5%)].

Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.

Eye contact

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.

Skin contact

Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.

Ingestion

Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

May cause irritation to respiratory system.

Eye contact

May cause irritation to eyes.

Skin contact

May cause irritation to skin.

Ingestion

Ingestion may cause nausea and vomiting.

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

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Contains oxidising substance(s) at <0.1%. Contains substance(s) which are hazardous to the environment. Do not allow undiluted product to be released to ground water, water course or sewage system.

5.3. Advice for firefighters
### 5.3. Advice for firefighters

Do not breathe vapour or spray mist. Wear suitable respiratory equipment when necessary.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.

#### 6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

#### 6.3. Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### 6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures between 2 °C and 8 °C. Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions. Do NOT allow to freeze.

#### 7.3. Specific end use(s)

See Section(s) 1.2 for further information.

### Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No occupational exposure limits known.

#### 8.2. Exposure controls

<table>
<thead>
<tr>
<th>8.2.1. Appropriate engineering controls</th>
<th>8.2.2. Individual protection measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure adequate ventilation of the working area.</td>
<td>Use as appropriate: Protective equipment.</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

<table>
<thead>
<tr>
<th>Eye / face protection</th>
<th>Use as appropriate: Suitable eye protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin protection - Handprotection</td>
<td>Use as appropriate: Chemical-resistant gloves made of any waterproof material.</td>
</tr>
<tr>
<td>Skin protection - Other</td>
<td>Use as appropriate: Protective clothing.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>In case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
<tr>
<td>Occupational exposure controls</td>
<td>Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.</td>
</tr>
</tbody>
</table>

Further information

Remove and wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless/Slight</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.4</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

9.2. Other information

VOC (Volatile organic compounds) Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
### 10.4. Conditions to avoid

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep away from extreme temperatures.</td>
<td></td>
</tr>
</tbody>
</table>

### 10.5. Incompatible materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Avoid Contact With</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reducing agents</td>
<td></td>
</tr>
</tbody>
</table>

### 10.6. Hazardous decomposition products

- Carbon oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>May cause irritation to skin.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>May cause irritation to eyes.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause allergic reactions in susceptible people.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No mutagenic effects reported.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No components at &gt;0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.</td>
</tr>
<tr>
<td></td>
<td>No components at &gt;0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs.</td>
</tr>
<tr>
<td></td>
<td>No components at &gt;0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens.</td>
</tr>
<tr>
<td></td>
<td>Not listed in the OSHA standard 1910.1003 Carcinogens.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No teratogenic effects reported.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No Significant Hazard.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No Significant Hazard.</td>
</tr>
<tr>
<td>Repeated or prolonged exposure</td>
<td>Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.</td>
</tr>
</tbody>
</table>

#### 11.1.2. Mixtures

See Section(s) 3 for further information.

#### 11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

#### 11.1.4. Toxicological Information

No data available.

#### 11.1.5. Hazard Class

See Section(s) 2 and 14 for further information.

#### 11.1.6. Classification Criteria

Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

#### 11.1.7. Information on likely routes of exposure

- Eye contact. Skin contact. Ingestion. Inhalation.

#### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.
### Rapid Extraction Buffer, Type 9

#### 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

#### 11.1.10. Interactive effects

No data available.

#### 11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

#### 11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

#### 11.1.13. Other information

No data available.

---

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data is available on this product.

#### 12.3. Bioaccumulative potential

No data is available on this product.

#### Partition coefficient

Rapid Extraction Buffer, Type 9 No data available

#### 12.4. Mobility in soil

No data is available on this product.

#### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

#### 12.6. Other adverse effects

Contains material(s) which may be harmful to aquatic organisms, including fish and invertebrates. Specific test data for the mixture is not available.

#### Further information

Keep out of lakes, ponds, or streams. Do not let product contaminate subsoil.

---

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

#### Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

#### Disposal of packaging

Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available.
### Disposal of packaging
If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>The product is not classified as dangerous for carriage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
<tr>
<td>14.6. Special precautions for user</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
<tr>
<td>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>The product is not classified as dangerous for carriage.</td>
</tr>
</tbody>
</table>

### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulations</td>
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</table>
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Substances Control Law (Japan): Class I environmental release, [Polyethylene octylphenyl ether, CAS No. 9002-93-1 (<0.5%)].
Industrial Safety and Health Act, Dangerous Substances (Japan): Dangerous substance, Oxidizing, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)].
Poisonous and Deleterious Substances Act (Japan): This product contains no hazardous substances at or above published reporting levels.
Soil Contamination Countermeasures Act (Japan): This product contains no hazardous substances at or above published reporting levels.
Water Pollution Control Law (Japan): Harmful substance, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)].
Chemical Substances Subject to Permission (Korea): This product contains no hazardous substances at or above published reporting levels.
Restricted or Prohibited Substances (Korea): This product contains no hazardous substances at or above published reporting levels.
Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This product contains no hazardous substances at or above published reporting levels.
Philippine Inventory of Chemicals and Chemical Substances (PICCS): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969): All ingredients listed or exempt., No restrictions.
Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product contains no hazardous substances at or above published reporting levels.
Hazardous Substances Act (Thailand): This product contains no hazardous substances at or above published reporting levels.
Law on Chemicals (Vietnam): Decree 113/2017/ND-CP: List of chemicals subject to compulsory declaration, Decree 113/2017/ND-CP: List of chemicals subject to conditional industrial production and trading, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3 (<0.1%)].

--Australia and New Zealand--
Australian Dangerous Goods Code: Not applicable.
Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt., No restrictions.
New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt., No restrictions.

--European Union (EU) and the United Kingdom (UK)--
Authorisation List (Annex XIV of REACH): This product contains no hazardous substances at or above published reporting levels.
Annex XVII for REACH: This product contains no hazardous substances at or above published reporting levels, No restrictions.
Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America--
Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt., No restrictions.
Toxic Substances Control Act (TSCA): All ingredients listed or exempt.
Massachusetts Right-to-Know Hazardous Substance List: This product contains no hazardous substances at or above published reporting levels.
New Jersey Worker and Community Right to Know Act: This product contains no hazardous substances at or above published reporting levels.
Pennsylvania Right to Know Law: This product contains no hazardous substances at or above published reporting levels.
Rhode Island Right-to-Know General Law: This product contains no hazardous substances at or above published reporting levels.
Rapid Extraction Buffer, Type 9

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

California Proposition 65: This product does not contain reportable substances at >0.0001% concentration.

SECTION 16: Other information

This document differs from the previous version in the following areas:
1 - Description.
1 - Product Use.
1 - Manufactured By:
2 - Other hazards.
2 - 2.1.2. Classification - GHS.
3 - Description.
5 - 5.2. Special hazards arising from the substance or mixture.
7 - 7.2. Conditions for safe storage, including any incompatibilities.
8 - 8.1. Control parameters.
10 - 10.5. Incompatible materials.
11 - Acute toxicity.
12 - 12.6. Other adverse effects.
15 - Chemical Inventories/Right-to-Know Lists:

ACRONYMS

ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).
CAS No.: Chemical Abstracts Service.
CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organisation.
IMDG: International Maritime Dangerous Goods.
LD: Lethal dose.
OEL: Occupational exposure limit.
OSHA: U.S. Occupational Safety and Health Administration.
PEL: Permissible Exposure Limit.
REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
SVHC: Substance of very high concern.
US DOT: United States Department of Transportation.
VOC: Volatile Organic Compound.
WEL: Workplace Exposure Limit.

Text of Hazard Statements in Section 3

Ox. Sol. 2: H272 - May intensify fire; oxidiser.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.
Acute Tox. 4: H302 - Harmful if swallowed.
Eye Dam. 1: H318 - Causes serious eye damage.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Further information

DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding
Rapid Extraction Buffer, Type 9

Further Information

<table>
<thead>
<tr>
<th>the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished &quot;as is&quot; and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</td>
</tr>
</tbody>
</table>