



Kit SDS Cover Sheet

Product Name:

Item No(s):

Transport Information: *This kit contains Dangerous Goods component(s) which are being shipped under the Excepted Quantities exemption or as a Chemical kit (UN3316). For further information on individual components, please refer to the corresponding component SDS.*

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). If a component does not have a Safety Data Sheet included, the item falls under Hazard Communication [1910.1200(b)(6)], *Articles*, and does not require a Safety Data Sheet.

Kit Components:

For product information, please contact your Neogen Corporation Representative.  
For further information regarding this SDS, please contact [SDS@neogen.com](mailto:SDS@neogen.com).

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## ANSR® Lysis Reagent

Revision 1  
Revision date 2020-01-06

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

#### 1.1. Product identifier

|              |                     |
|--------------|---------------------|
| Product name | ANSR® Lysis Reagent |
| Product code | 49105               |

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

|             |   |
|-------------|---|
| Product Use | [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC21] Laboratory chemicals; |
| Description | Intended for laboratory use only.   |

#### 1.3. Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Company   | Neogen Corporation                           |
| Address   | 620 Leshler Place<br>Lansing MI 48912<br>USA |
| Web       | www.neogen.com                               |
| Telephone | 517-372-9200/800-234-5333                    |
| Email     | SDS@neogen.com                               |

#### 1.4. Emergency telephone number


|  |  |
|--|--|
|  | 24 hours:<br>Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)<br>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 | Resp. Sens. 1: H334; STOT SE 3: H335; |
|-----------------------------|---------------------------------------|

#### 2.2. Label elements

|                                     |   |
|-------------------------------------|---|
| Hazard pictograms                   |    |
| Signal Word                         | Danger  |
| Hazard Statement                    | Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>STOT SE 3: H335 - May cause respiratory irritation. |
| Precautionary Statement: Prevention | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P284 - [In case of inadequate ventilation] wear respiratory protection.                     |

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## 2.2. Label elements

|                                   |  |
|-----------------------------------|--|
| Precautionary Statement: Response | P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ . |
| Precautionary Statement: Storage  | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.   |
| Precautionary Statement: Disposal | P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.   |

## 2.3. Other hazards

|               |             |
|---------------|-------------|
| Other hazards | None known. |
|---------------|-------------|

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name | Index No. | CAS No.    | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification   |
|---------------|-----------|------------|-----------|---------------------------|--------------|--|
| Proteinase K  |           | 39450-01-6 | 254-457-8 |                           | 1 - 10%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; STOT SE 3: H335; |

## 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 allergy or asthma symptoms or breathing difficulties if inhaled. 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

## ANSR® Lysis Reagent

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## 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

## 5.2. Special hazards arising from the substance or mixture

Avoid raising dust.

## 5.3. Advice for firefighters

Do not breathe dust or vapor. Wear suitable respiratory equipment when necessary.

**SECTION 6: Accidental release measures**

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

Avoid formation of dust. 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

Avoid formation of dust. 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 in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

## 7.3. Specific end use(s)

See Section(s) 1.2 for further information.

**SECTION 8: Exposure controls/personal protection**

## 8.2. Exposure controls



Appropriate engineering controls

Ensure adequate ventilation of the working area.

Individual protection measures

Use as appropriate: Protective equipment.

Eye / face protection

Use as appropriate: Suitable eye protection.

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## 8.2. Exposure controls

|                                   |   |
|-----------------------------------|---|
| 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.   |
| 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. |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                          |                   |
|--------------------------|-------------------|
| State                    | Solid/Tablet      |
| Color                    | White             |
| Odor                     | Odorless/Slight   |
| Odor threshold           | No data available |
| pH                       | No data available |
| Melting point            | No data available |
| Freezing Point           | No data available |
| Boiling point            | Not applicable.   |
| Flash point              | No data available |
| Evaporation rate         | No data available |
| Flammability limits      | No data available |
| Vapor pressure           | No data available |
| Vapor density            | No data available |
| Relative density         | No data available |
| Partition coefficient    | No data available |
| Autoignition temperature | No data available |
| Viscosity                | Not applicable.   |
| Explosive properties     | No data available |
| Oxidizing properties     | No data available |
| Solubility               | Soluble in water  |

## 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, Moisture. |
|--|--|

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## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

Carbon oxides.

**SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | 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.   |
| <b>Skin corrosion/irritation</b>         | May cause irritation to skin.  |
| <b>Serious eye damage/irritation</b>     | May cause irritation to eyes.  |
| <b>Respiratory or skin sensitization</b> | May cause allergic reactions in susceptible people.  |
| <b>Germ cell mutagenicity</b>            | No mutagenic effects reported.   |
| <b>Carcinogenicity</b>                   | Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123.<br>Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens.<br>Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.<br>Not listed in the OSHA standard 1910.1003 Carcinogens. |
| <b>Reproductive toxicity</b>             | No teratogenic effects reported.   |
| <b>STOT-single exposure</b>              | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| <b>STOT-repeated exposure</b>            | No Significant Hazard.   |
| <b>Aspiration hazard</b>                 | No Significant Hazard.   |
| <b>Repeated or prolonged exposure</b>    | Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.   |

## 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 Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

## 11.1.7. Information on likely routes of exposure

Inhalation. Eye contact. Skin contact. Ingestion.

## 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.

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## 11.1.10. Interactive effects

No data available.

## 11.1.11. Absence of specific data

&lt;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

Caution - substance not yet fully tested.

**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

ANSR® Lysis Reagent 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

Caution - substance not yet fully tested.

**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.

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## 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

|  |  |
|--|--|
| <b>Regulations</b>                               | Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.  |
| <b>Chemical Inventories/Right-to-Know Lists:</b> | <p>--International--</p> <p>Basel Convention (Hazardous Waste): Not applicable.<br/>         Chemical Weapons Convention (OPCW): This material contains no reportable components.<br/>         Kyoto Protocol Greenhouse Gases: This material contains no reportable components.<br/>         Mercosur Agreement: Applicable.<br/>         Montreal Protocol: This material contains no reportable components.<br/>         The Rotterdam Convention: This material contains no reportable components.<br/>         The Stockholm Convention: This material contains no reportable components.</p> <p>--Asia and the ASEAN Nations--</p> <p>Catalog of Hazardous Chemicals (China): This material contains no reportable components.<br/>         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 material contains no reportable components.<br/>         Chemical Substances Control Law (Japan): This material contains no reportable components.<br/>         Industrial Safety and Health Act, Dangerous Substances (Japan): This material contains no reportable components.<br/>         Poisonous and Deleterious Substances Act (Japan): This material contains no reportable components.<br/>         Chemical Substances Subject to Permission (Korea): This material contains no reportable components.<br/>         Restricted or Prohibited Substances (Korea): This material contains no reportable components.<br/>         Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This material contains no reportable components.<br/>         Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients listed or exempt.<br/>         Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This material contains no reportable components.<br/>         Hazardous Substances Act (Thailand): This material contains no reportable components.<br/>         Law on Chemicals (Vietnam): Appendix V, [Potassium phosphate monobasic, CAS No. 7778-77-0].</p> |



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

--Australia and New Zealand--.  
Australian Dangerous Goods Code: Not applicable.  
Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.  
New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.

--European Union (EU) and the United Kingdom (UK)--.  
Authorization List (Annex XIV of REACH): This material contains no reportable components.  
Annex XVII for REACH: This material contains no reportable components.  
Article 95 of the Biocidal Products Regulation (BPR): Not applicable.

--North America--.  
Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt.  
Toxic Substances Control Act (TSCA): All ingredients listed or exempt.  
Massachusetts Right-to-Know Hazardous Substance List: This material contains no reportable components.  
New Jersey Worker and Community Right to Know Act: This material contains no reportable components.  
Pennsylvania Right to Know Law: This material contains no reportable components.  
Rhode Island Right-to-Know General Law: This material contains no reportable components.  
California Prop 65: This material contains no reportable components.

## SECTION 16: Other information

## Other information

|                 |   |
|-----------------|---|
| <b>Revision</b> | <p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> <li>1 - Description.</li> <li>1 - Product Use.</li> <li>2 - 2.1.2. Classification - GHS.</li> <li>2 - Hazard pictograms.</li> <li>2 - Precautionary Statement: Prevention.</li> <li>2 - Precautionary Statement: Response.</li> <li>2 - Precautionary Statement: Storage.</li> <li>3 - Description.</li> <li>4 - Inhalation.</li> <li>5 - 5.2. Special hazards arising from the substance or mixture.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Viscosity).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).</li> <li>9 - 9.2. Other information (Product Subcategory).</li> <li>11 - 11.1.4. Toxicological information.</li> <li>11 - Acute toxicity.</li> <li>15 - Chemical Inventories/Right-to-Know Lists:.</li> <li>16 - Maximum content of VOC.</li> </ul> |
| <b>Acronyms</b> | <p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).<br/>CAS No.: Chemical Abstracts Service.<br/>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).<br/>GHS: Globally Harmonized System.<br/>HCS 2012: Hazard Communication Standard (2012 revision).<br/>IATA: International Air Transport Association.<br/>ICAO: International Civil Aviation Organization.</p>  |

## ANSR® Lysis Reagent

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## Other information

|   |  |
|---|--|
|   | <p>IMDG: International Maritime Dangerous Goods.<br/> LD: Lethal dose.<br/> OEL: Occupational exposure limit.<br/> OSHA: U.S. Occupational Safety and Health Administration.<br/> PEL: Permissible Exposure Limit.<br/> REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.<br/> SVHC: Substance of very high concern.<br/> US DOT: United States Department of Transportation.<br/> VOC: Volatile Organic Compound.<br/> WEL: Workplace Exposure Limit.</p> |
| <b>Text of Hazard Statements in Section 3</b> | <p>Skin Irrit. 2: H315 - Causes skin irritation.<br/> Eye Irrit. 2: H319 - Causes serious eye irritation.<br/> Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br/> STOT SE 3: H335 - May cause respiratory irritation.</p>   |

## Further information

|  |  |
|--|--|
|  | <p>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.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED 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.</p> |
|--|--|

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

## ANSR® Lysis Reagent Suspension Buffer

Revision 1  
Revision date 2020-01-07

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

#### 1.1. Product identifier

|              |                                       |
|--------------|---------------------------------------|
| Product name | ANSR® Lysis Reagent Suspension Buffer |
| Product code | 17645                                 |

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

|             |   |
|-------------|---|
| Product Use | [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC21] Laboratory chemicals; |
| Description | Intended for laboratory use only.   |

#### 1.3. Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Company   | Neogen Corporation                           |
| Address   | 620 Leshler Place<br>Lansing MI 48912<br>USA |
| Web       | www.neogen.com                               |
| Telephone | 517-372-9200/800-234-5333                    |
| Email     | SDS@neogen.com                               |

#### 1.4. Emergency telephone number


|  |  |
|--|--|
|  | 24 hours:<br>Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)<br>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 | Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Dam. 1: H318; Aquatic Chronic 1: H410; |
|-----------------------------|---|

#### 2.2. Label elements

|                   |  |
|-------------------|--|
| Hazard pictograms |   |
| Signal Word       | Danger   |
| Hazard Statement  | Skin Irrit. 2: H315 - Causes skin irritation.<br>Skin Sens. 1: H317 - May cause an allergic skin reaction.<br>Eye Dam. 1: H318 - Causes serious eye damage.<br>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. |

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## 2.2. Label elements

|  |  |
|--|--|
| <b>Precautionary Statement: Prevention</b> | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash thoroughly after handling.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| <b>Precautionary Statement: Response</b>   | P302+P352 - IF ON SKIN: Wash with plenty of water/ .<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.                            |
| <b>Precautionary Statement: Disposal</b>   | P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations  |

## 2.3. Other hazards

|                      |             |
|----------------------|-------------|
| <b>Other hazards</b> | None known. |
|----------------------|-------------|

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name                  | Index No. | CAS No.    | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification   |
|--------------------------------|-----------|------------|-----------|---------------------------|--------------|--|
| Polyethylene octylphenyl ether |           | 9002-93-1  | 618-344-0 |                           | 20 - 30%     | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; |
| Magnesium nitrate              |           | 10377-60-3 | 233-826-7 |                           | 0 - 0.5%     | Ox. Sol. 2: H272; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;                                |

## Description

|  |  |
|--|--|
|  | Included on the Candidate List of Substances of Very High Concern: [Polyethylene octylphenyl ether, CAS No. 9002-93-1].<br><br>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

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | 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.                          |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention.   |
| <b>Skin contact</b> | Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.   |
| <b>Ingestion</b>    | 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

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May cause irritation to respiratory system. |
|-------------------|---|

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

|              |   |
|--------------|---|
| Eye contact  | Causes burns. Risk of serious damage to eyes.                               |
| Skin contact | Causes skin irritation. May cause dermatitis.                               |
| Ingestion    | Ingestion may cause nausea and vomiting. May cause oral mucosal irritation. |

## 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

|  |  |
|--|--|
|  | Irritant. Do not breathe vapor or spray mist. Contains substance(s) which are hazardous to the environment. Do not allow runoff water to enter sewers or drains. |
|--|--|

### 5.3. Advice for firefighters

|  |   |
|--|---|
|  | Do not breathe vapor 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

|  |   |
|--|---|
|  | Prevent further spillage if safe. 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.<br>Read the entire label and follow all use directions, restrictions, and precautions. |
|--|--|

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

|  |   |
|--|---|
|  | Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions. |
|--|---|

### 7.3. Specific end use(s)


|  |   |
|--|---|
|  | See Section(s) 1.2 for further information. |
|--|---|

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## SECTION 8: Exposure controls/personal protection

## 8.2. Exposure controls

|                                   |   |
|-----------------------------------|---|
|                                   |    |
| Appropriate engineering controls  | Ensure adequate ventilation of the working area.  |
| Individual protection measures    | Use as appropriate: Protective equipment.   |
| Eye / face protection             | Wear: Chemical safety goggles, Face shield.   |
| Skin protection - Hand protection | Wear suitable gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. |
| Skin protection - Other           | Use as appropriate: Protective clothing.  |
| Respiratory protection            | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| 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.         |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                          |                   |
|--------------------------|-------------------|
| State                    | Liquid            |
| Color                    | Clear/Yellow      |
| Odor                     | Odorless/Slight   |
| Odor threshold           | No data available |
| pH                       | 8                 |
| Melting point            | No data available |
| Freezing Point           | No data available |
| Boiling point            | No data available |
| Flash point              | No data available |
| Evaporation rate         | No data available |
| Flammability limits      | Not applicable.   |
| Vapor pressure           | No data available |
| Vapor density            | No data available |
| Relative density         | No data available |
| Partition coefficient    | No data available |
| Autoignition temperature | No data available |
| Viscosity                | No data available |
| Explosive properties     | Not applicable.   |
| Oxidizing properties     | No data available |
| Solubility               | Soluble in water  |

## 9.2. Other information

|                                  |                 |
|----------------------------------|-----------------|
| VOC (Volatile organic compounds) | Not applicable. |
|----------------------------------|-----------------|

## SECTION 10: Stability and reactivity

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## 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

|  |                    |
|--|--------------------|
|  | No data available. |
|--|--------------------|

## 10.6. Hazardous decomposition products

|  |                |
|--|----------------|
|  | Carbon oxides. |
|--|----------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | 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.   |
| Skin corrosion/irritation         | Causes skin irritation.  |
| Serious eye damage/irritation     | Causes burns. Causes severe inflammation and may damage the cornea.  |
| Respiratory or skin sensitization | May cause allergic reactions in susceptible people. May cause dermatitis.  |
| Germ cell mutagenicity            | No mutagenic effects reported.   |
| Carcinogenicity                   | Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123.<br>Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens.<br>Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.<br>Not listed in the OSHA standard 1910.1003 Carcinogens. |
| Reproductive toxicity             | No teratogenic effects reported.   |
| STOT-single exposure              | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| STOT-repeated exposure            | No Significant Hazard.   |
| Aspiration hazard                 | No Significant Hazard.   |
| Repeated or prolonged exposure    | Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.  |

### 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. |
|--|--|

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## 11.1.6. Classification Criteria

Based on the Globally Harmonized 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.

## 11.1.11. 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

Caution - substance not yet fully tested.

## SECTION 12: Ecological information

### 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

**ANSR® Lysis Reagent** No data available  
**Suspension Buffer**

### 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

Toxic to aquatic organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of as special waste in compliance with 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.



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## 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

## Hazard pictograms



## 14.1. UN number

UN3082

## 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-tertiary Octylphenoxy polyethyl alcohol mixture)

## 14.3. Transport hazard class(es)

|                 |   |
|-----------------|---|
| DOT             | 9 |
| Subsidiary risk | - |
| IMDG            | 9 |
| Subsidiary risk | - |
| IATA            | 9 |
| Subsidiary risk | - |

## 14.4. Packing group

Packing group III

## 14.5. Environmental hazards

|                       |     |
|-----------------------|-----|
| Environmental hazards | Yes |
| Marine pollutant      | Yes |

## DOT

|                 |     |
|-----------------|-----|
| Hazard ID       | 90  |
| Tunnel Category | (E) |

## IMDG

EmS Code F-A S-F

## IATA

|                                 |       |
|---------------------------------|-------|
| Packing Instruction (Cargo)     | 964   |
| Maximum quantity                | 450 L |
| Packing Instruction (Passenger) | 964   |
| Maximum quantity                | 450 L |

## SECTION 15: Regulatory information

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

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

|   |   |
|---|---|
| <p><b>Regulations</b></p> <p><b>Chemical Inventories/Right-to-Know Lists:</b></p> | <p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <hr/> <p>--International--</p> <p>Basel Convention (Hazardous Waste): Not applicable.</p> <p>Chemical Weapons Convention (OPCW): This material contains no reportable components.</p> <p>Kyoto Protocol Greenhouse Gases: This material contains no reportable components.</p> <p>Mercosur Agreement: Applicable.</p> <p>Montreal Protocol: This material contains no reportable components.</p> <p>The Rotterdam Convention: This material contains no reportable components.</p> <p>The Stockholm Convention: This material contains no reportable components.</p> <p>--Asia and the ASEAN Nations--</p> <p>Catalog of Hazardous Chemicals (China): [2309, Magnesium nitrate, CAS No. 10377-60-3].</p> <p>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 material contains no reportable components.</p> <p>Chemical Substances Control Law (Japan): Class I environmental release, [Polyethylene octylphenyl ether, CAS No. 9002-93-1], Water Pollution Control Law., [Ammonium sulfate (ammonia compounds), CAS No. 7783-20-2], [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3].</p> <p>Industrial Safety and Health Act, Dangerous Substances (Japan): Oxidizing, [Magnesium nitrate (nitrate compounds), CAS No. 10377-60-3].</p> <p>Poisonous and Deleterious Substances Act (Japan): This material contains no reportable components.</p> <p>Chemical Substances Subject to Permission (Korea): This material contains no reportable components.</p> <p>Restricted or Prohibited Substances (Korea): This material contains no reportable components.</p> <p>Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This material contains no reportable components.</p> <p>Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients listed or exempt.</p> <p>Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This material contains no reportable components.</p> <p>Hazardous Substances Act (Thailand): This material contains no reportable components.</p> <p>Law on Chemicals (Vietnam): Annex I, Appendix VII, [Magnesium nitrate, CAS No. 10377-60-3].</p> <p>--Australia and New Zealand--</p> <p>Australian Dangerous Goods Code: Not applicable.</p> <p>Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.</p> <p>New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.</p> <p>--European Union (EU) and the United Kingdom (UK)--</p> <p>Authorization List (Annex XIV of REACH): This material contains no reportable components.</p> <p>Annex XVII for REACH: This material contains no reportable components.</p> <p>Article 95 of the Biocidal Products Regulation (BPR): Not applicable.</p> <p>--North America--</p> <p>Domestic/Non-Domestic Substances Lists (DSL/NDL): All ingredients listed or exempt.</p> <p>Toxic Substances Control Act (TSCA): All ingredients listed or exempt.</p> <p>Massachusetts Right-to-Know Hazardous Substance List: This material contains no reportable components.</p> |
|---|---|

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

New Jersey Worker and Community Right to Know Act: This material contains no reportable components.

Pennsylvania Right to Know Law: This material contains no reportable components.

Rhode Island Right-to-Know General Law: This material contains no reportable components.

California Prop 65: This material contains no reportable components.

## SECTION 16: Other information

## Other information

|                 |  |
|-----------------|--|
| <b>Revision</b> | <p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> <li>1 - Description.</li> <li>1 - Product Use.</li> <li>2 - 2.1.2. Classification - GHS.</li> <li>2 - Hazard pictograms.</li> <li>2 - Precautionary Statement: Prevention.</li> <li>2 - Precautionary Statement: Response.</li> <li>2 - Precautionary Statement: Disposal.</li> <li>3 - Description.</li> <li>4 - Eye contact.</li> <li>4 - Eye contact.</li> <li>4 - Skin contact.</li> <li>5 - 5.2. Special hazards arising from the substance or mixture.</li> <li>8 - Eye / face protection.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Explosive properties).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Vapor pressure).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Solubility).</li> <li>9 - 9.2. Other information (Gas group).</li> <li>9 - 9.2. Other information (Product Subcategory).</li> <li>11 - 11.1.4. Toxicological information.</li> <li>11 - Respiratory or skin sensitization.</li> <li>11 - Serious eye damage/irritation.</li> <li>12 - 12.1. Toxicity.</li> <li>12 - 12.6. Other adverse effects.</li> <li>13 - 13.1. Waste treatment methods.</li> <li>15 - Chemical Inventories/Right-to-Know Lists:.</li> <li>16 - Maximum content of VOC.</li> </ul> |
| <b>Acronyms</b> | <p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.</p> <p>SVHC: Substance of very high concern.</p>  |

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## Other information

|   |   |
|---|---|
| <b>Text of Hazard Statements in Section 3</b> | <p>US DOT: United States Department of Transportation.<br/> VOC: Volatile Organic Compound.<br/> WEL: Workplace Exposure Limit.</p>   |
|   | <p>Acute Tox. 4: H302 - Harmful if swallowed.<br/> Skin Irrit. 2: H315 - Causes skin irritation.<br/> Eye Dam. 1: H318 - Causes serious eye damage.<br/> Aquatic Acute 1: H400 - Very toxic to aquatic life.<br/> Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.<br/> Ox. Sol. 2: H272 - May intensify fire; oxidiser.<br/> Eye Irrit. 2: H319 - Causes serious eye irritation.<br/> STOT SE 3: H335 - May cause respiratory irritation.</p> |

## Further information

|  |  |
|--|--|
|  | <p>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.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED 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.</p> |
|--|--|

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## ANSR® E. coli Reaction Tubes

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

#### 1.1. Product identifier

|              |                              |
|--------------|------------------------------|
| Product name | ANSR® E. coli Reaction Tubes |
| Product code | (9822)                       |

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

|             |   |
|-------------|---|
| Product Use | [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC21] Laboratory chemicals; |
| Description | Intended for laboratory use only.   |

#### 1.3. Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Company   | Neogen Corporation                           |
| Address   | 620 Leshler Place<br>Lansing MI 48912<br>USA |
| Web       | www.neogen.com                               |
| Telephone | 517-372-9200/800-234-5333                    |
| Email     | SDS@neogen.com                               |

#### 1.4. Emergency telephone number


|  |  |
|--|--|
|  | 24 hours:<br>Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)<br>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 | Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; |
|-----------------------------|---|

#### 2.2. Label elements

|                                     |   |
|-------------------------------------|---|
| Hazard pictograms                   |    |
| Signal Word                         | Warning   |
| Hazard Statement                    | Skin Irrit. 2: H315 - Causes skin irritation.<br>Eye Irrit. 2: H319 - Causes serious eye irritation.<br>STOT SE 3: H335 - May cause respiratory irritation. |
| Precautionary Statement: Prevention | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash thoroughly after handling.  |

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## 2.2. Label elements

|                                      |   |
|--------------------------------------|---|
| Precautionary Statement:<br>Response | P280 - Wear protective gloves/protective clothing/eye protection/face protection.   |
|                                      | P302+P352 - IF ON SKIN: Wash with plenty of water/ .<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312 - Call a POISON CENTER/doctor/ /if you feel unwell. |
|                                      | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  |
| Precautionary Statement:<br>Storage  |   |
| Precautionary Statement:<br>Disposal | P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.  |

## 2.3. Other hazards

|               |             |
|---------------|-------------|
| Other hazards | None known. |
|---------------|-------------|

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name                   | Index No. | CAS No.   | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification   |
|---------------------------------|-----------|-----------|-----------|---------------------------|--------------|--|
| Dimethyl sulfoxide (DMSO)       |           | 67-68-5   | 200-664-3 |                           | 0 - 0.5%     | Flam. Liq. 4: H227; Skin Irrit. 2: H315; Eye Irrit. 2: H319; |
| Trizma hydrochloride            |           | 1185-53-1 | 214-684-5 |                           | 1 - 10%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;    |
| Tris(hydroxymethyl)aminomethane |           | 77-86-1   | 201-064-4 |                           | 1 - 10%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;    |

## 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  | Causes eye irritation.  |
| Skin contact | Causes skin irritation.   |
| Ingestion    | Ingestion may cause nausea and vomiting. May cause oral mucosal irritation. |

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

## ANSR® E. coli Reaction Tubes

Revision 1  
Revision date 2020-01-07**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**

Irritant. Avoid raising dust. May form combustible dust/air mixture.

**5.3. Advice for firefighters**

Do not breathe dust or vapor. 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**

Prevent further spillage if safe. Avoid formation of dust. 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 in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

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


See Section(s) 1.2 for further information.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls**

## ANSR® E. coli Reaction Tubes

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## 8.2. Exposure controls

|                                   |   |
|-----------------------------------|---|
|                                   |    |
| Appropriate engineering controls  | Ensure adequate ventilation of the working area.  |
| Individual protection measures    | Use as appropriate: Protective equipment.   |
| Eye / face protection             | Wear eye/face protection.   |
| Skin protection - Hand protection | Wear suitable gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. |
| Skin protection - Other           | Use as appropriate: Protective clothing.  |
| Respiratory protection            | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| 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.         |

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                                 |                   |
|---------------------------------|-------------------|
| <b>State</b>                    | Solid/Pellets     |
| <b>Color</b>                    | Pink              |
| <b>Odor</b>                     | Odorless/Slight   |
| <b>Odor threshold</b>           | No data available |
| <b>pH</b>                       | No data available |
| <b>Melting point</b>            | No data available |
| <b>Freezing Point</b>           | No data available |
| <b>Boiling point</b>            | No data available |
| <b>Flash point</b>              | No data available |
| <b>Evaporation rate</b>         | No data available |
| <b>Flammability limits</b>      | No data available |
| <b>Vapor pressure</b>           | No data available |
| <b>Vapor density</b>            | No data available |
| <b>Relative density</b>         | No data available |
| <b>Partition coefficient</b>    | No data available |
| <b>Autoignition temperature</b> | No data available |
| <b>Viscosity</b>                | Not applicable.   |
| <b>Explosive properties</b>     | No data available |
| <b>Oxidizing properties</b>     | No data available |
| <b>Solubility</b>               | Soluble in water  |

## 9.2. Other information

|   |                 |
|---|-----------------|
| <b>VOC (Volatile organic compounds)</b> | Not applicable. |
|---|-----------------|

## SECTION 10: Stability and reactivity

## 10.1. Reactivity



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## 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, Moisture.

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

Carbon oxides.

**SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | 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.   |
| Skin corrosion/irritation         | Causes skin irritation.  |
| Serious eye damage/irritation     | Causes serious eye irritation.   |
| Respiratory or skin sensitization | May cause allergic reactions in susceptible people.  |
| Germ cell mutagenicity            | No mutagenic effects reported.   |
| Carcinogenicity                   | Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123.<br>Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens.<br>Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values.<br>Not listed in the OSHA standard 1910.1003 Carcinogens. |
| Reproductive toxicity             | No teratogenic effects reported.   |
| STOT-single exposure              | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| STOT-repeated exposure            | No Significant Hazard.   |
| Aspiration hazard                 | No Significant Hazard.   |
| Repeated or prolonged exposure    | Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.  |

## 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.

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## 11.1.6. Classification Criteria

|  |   |
|--|---|
|  | Based on the Globally Harmonized 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. Inhalation. Ingestion. |
|--|---|

## 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. |
|--|--------------------|

## 11.1.11. 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

|  |   |
|--|---|
|  | Caution - substance not yet fully tested. |
|--|---|

**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

|  |   |
|--|---|
|  | <b>ANSR® E. coli Reaction Tubes</b> 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

|  |   |
|--|---|
|  | Caution - substance not yet fully tested. |
|--|---|

**SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

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

## Disposal methods

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Revision date 2020-01-07**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**

|  |  |
|--|--|
| <b>Regulations</b>                               | Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.  |
| <b>Chemical Inventories/Right-to-Know Lists:</b> | <p>--International--</p> <p>Basel Convention (Hazardous Waste): Not applicable.<br/>Chemical Weapons Convention (OPCW): This material contains no reportable components.<br/>Kyoto Protocol Greenhouse Gases: This material contains no reportable components.<br/>Mercosur Agreement: Applicable.<br/>Montreal Protocol: This material contains no reportable components.<br/>The Rotterdam Convention: This material contains no reportable components.<br/>The Stockholm Convention: This material contains no reportable components.</p> <p>--Asia and the ASEAN Nations--</p> <p>Catalog of Hazardous Chemicals (China): This material contains no reportable components.<br/>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 material contains no reportable components.<br/>Chemical Substances Control Law (Japan): This material contains no reportable components.<br/>Industrial Safety and Health Act, Dangerous Substances (Japan): This material contains no</p> |

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

reportable components.

Poisonous and Deleterious Substances Act (Japan): This material contains no reportable components.

Chemical Substances Subject to Permission (Korea): This material contains no reportable components.

Restricted or Prohibited Substances (Korea): This material contains no reportable components.

Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000 (Malaysia): This material contains no reportable components.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients listed or exempt.

Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This material contains no reportable components.

Hazardous Substances Act (Thailand): This material contains no reportable components.

Law on Chemicals (Vietnam): This material contains no reportable components.

--Australia and New Zealand--.

Australian Dangerous Goods Code: Not applicable.

Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.

New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.

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

Authorization List (Annex XIV of REACH): All ingredients listed or exempt.

Annex XVII for REACH: This material contains no reportable components.

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

--North America--.

Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt.

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

Massachusetts Right-to-Know Hazardous Substance List: This material contains no reportable components.

New Jersey Worker and Community Right to Know Act: This material contains no reportable components.

Pennsylvania Right to Know Law: This material contains no reportable components.

Rhode Island Right-to-Know General Law: This material contains no reportable components.

California Prop 65: This material contains no reportable components.

## SECTION 16: Other information

## Other information

|          |  |
|----------|--|
| Revision | <p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> <li>1 - Description.</li> <li>1 - Product Use.</li> <li>2 - 2.1.2. Classification - GHS.</li> <li>2 - Precautionary Statement: Prevention.</li> <li>2 - Precautionary Statement: Response.</li> <li>2 - Precautionary Statement: Storage.</li> <li>2 - Precautionary Statement: Disposal.</li> <li>9 - 9.1. Information on basic physical and chemical properties (Boiling point).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Viscosity).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).</li> <li>9 - 9.1. Information on basic physical and chemical properties (Freezing Point).</li> <li>9 - 9.2. Other information (Product Subcategory).</li> </ul> |
|----------|--|

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## Other information

|   |  |
|---|--|
| <b>Acronyms</b>                               | <p>11 - 11.1.4. Toxicological information.<br/> 12 - 12.1. Toxicity.<br/> 15 - Chemical Inventories/Right-to-Know Lists.<br/> 16 - Maximum content of VOC.</p> <hr/> <p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).<br/> CAS No.: Chemical Abstracts Service.<br/> CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).<br/> GHS: Globally Harmonized System.<br/> HCS 2012: Hazard Communication Standard (2012 revision).<br/> IATA: International Air Transport Association.<br/> ICAO: International Civil Aviation Organization.<br/> IMDG: International Maritime Dangerous Goods.<br/> LD: Lethal dose.<br/> OEL: Occupational exposure limit.<br/> OSHA: U.S. Occupational Safety and Health Administration.<br/> PEL: Permissible Exposure Limit.<br/> REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.<br/> SVHC: Substance of very high concern.<br/> US DOT: United States Department of Transportation.<br/> VOC: Volatile Organic Compound.<br/> WEL: Workplace Exposure Limit.</p> |
| <b>Text of Hazard Statements in Section 3</b> | <p>Flam. Liq. 4: H227 - Combustible liquid.<br/> Skin Irrit. 2: H315 - Causes skin irritation.<br/> Eye Irrit. 2: H319 - Causes serious eye irritation.<br/> STOT SE 3: H335 - May cause respiratory irritation.</p>   |

## Further information

|  |  |
|--|--|
|  | <p>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.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED 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.</p> |
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