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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Soleris® Supplement, Yeast and Mold with Chlortetracycline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>YI-110C</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>[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC21] Laboratory chemicals;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Intended for laboratory use only.</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>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 - EC 1272/2008 | Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335; |

2.2. Label elements

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
</table>

2.2. Label elements

Precautionary Statement: Prevention
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: Response
- P302+P352 - IF ON SKIN: Wash with plenty of water/.
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTER/doctor/ if you feel unwell.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

<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>Chlortetracycline hydrochloride</td>
<td>64-72-2</td>
<td>200-591-7</td>
<td></td>
<td></td>
<td>60 - 70%</td>
<td>Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;</td>
</tr>
<tr>
<td>Tartaric acid</td>
<td>87-69-4</td>
<td>201-766-0</td>
<td></td>
<td></td>
<td>1 - 10%</td>
<td>Eye Dam. 1: H318;</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. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eye contact
Causes burns. Causes severe inflammation and may damage the cornea. Risk of serious damage.
4.2. Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Ingestion may cause nausea and vomiting. May cause oral mucosal irritation.</td>
</tr>
</tbody>
</table>

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 vapour. 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

| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area. |
| 8.2.2. Individual protection measures | Use as appropriate: Protective equipment. |
| Eye / face protection | Wear eye/face protection. |
| Skin protection - Handprotection | 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 Respiratory protection | Use as appropriate: Protective clothing. |
| Occupational exposure controls | In case of insufficient ventilation, wear suitable respiratory equipment. |
| | 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light yellow/Beige</td>
</tr>
<tr>
<td>Odour</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>Not applicable.</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>No data available</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>Not applicable.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>VOC (Volatile organic compounds)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. 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.

10.5. Incompatible materials
No data available.

10.6. Hazardous decomposition products
Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological 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>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>Causes serious eye damage. Causes severe inflammation and may damage the cornea.</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>Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Not listed in the OSHA standard 1910.1003 Carcinogens.</td>
</tr>
</tbody>
</table>

11.1.5. Hazard Class

| Soleris® Supplement, Yeast and Mold with Chlortetracycline | Oral Rat LD50: 3215 (ATEmix) |

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
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. Ingestion. Inhalation. Skin contact.

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
Soleris® Supplement, Yeast and Mold with Chlortetracycline 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
### 13.1. Waste treatment methods
Follow label instructions. Dispose of in compliance with all local and national regulations.

**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

<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>
</tbody>
</table>

### SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>--International--</td>
<td><strong>Chemical Inventories/Right-to-Know Lists:</strong> Basel Convention (Hazardous Waste): Not applicable. Chemical Weapons Convention (OPCW): This material contains no reportable components. Kyoto Protocol Greenhouse Gases: This material contains no reportable components. Mercosur Agreement: Applicable. Montreal Protocol: This material contains no reportable components. The Rotterdam Convention: This material contains no reportable components. The Stockholm Convention: This material contains no reportable components. --Asia and the ASEAN Nations--. Catalog of Hazardous Chemicals (China): This material contains no reportable components. 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.</td>
</tr>
</tbody>
</table>
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Substances Control Law (Japan): This material contains no reportable components.
Industrial Safety and Health Act, Dangerous Substances (Japan): This material contains no 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): Toxic Substances and Hazardous and Nuclear Wastes Control Act (RA6969): [Tartaric acid, CAS No. 87-69-4].
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): Appendix V, [Tartaric acid (its salts and esters), CAS No. 87-69-4].

--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)--.
Authorisation 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 Proposition 65: This material contains no reportable components.

SECTION 16: Other information

Revision

This document differs from the previous version in the following areas:

1 - Description.
2 - Product Use.
2 - Precautionary Statement: Response.
3 - Precautionary Statement: Storage.
4 - Inhalation.
4 - Eye contact.
9 - 9.1. Information on basic physical and chemical properties (Viscosity).
9 - 9.1. Information on basic physical and chemical properties (Evaporation rate).
9 - 9.1. Information on basic physical and chemical properties (Solubility).
11 - 11.1.4. Toxicological Information.
### Other Information

| Acronyms | ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).  
CAS No.: Chemical Abstracts Service.  
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. |
| Skin Irrit. 2: H315 - Causes skin irritation.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
STOT SE 3: H335 - May cause respiratory irritation.  
Eye Dam. 1: H318 - Causes serious eye damage. |

### 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.

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