

MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

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|--|---------------------------|-----------------------------|-----------------------|
| Product Name or Identity: | Yeast and Mold Supplement | | |
| Manufacturer's Name: | Neogen Corporation | Emergency Phone No.: | 517/372-9200 |
| | 620 Lesher Place | Fax No.: | 517/372-0108 |
| | Lansing, MI 48912 | e-mail: | foodsafety@neogen.com |
| Date Prepared or Revised: December 2015 | | | |

| Hazardous Components Specific Chemical Identity: | CAS-No. | % | Hazard Symbol |
|---|---------|-----|---------------|
| Chlortetracycline | 64-72-2 | 50% | Xn (Harmful) |
| Chloramphenicol | 56-75-7 | 50% | T (Toxic) |

Section 3. Health Hazard Identification

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| Health Hazards: <i>(Acute and Chronic)</i> | R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed R 36 / 37 / 38 Irritating to eyes, respiratory system and skin. R 42/43 May cause sensitization by inhalation and skin contact R45 May cause cancer R60/61 May impair fertility, May cause harm to the unborn child R63 Possible risk of harm to the unborn child |
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Section 4. First Aid Measures

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| Emergency / First Aid Procedures: | General Information: Immediately remove contaminated clothing. Consult a physician. Show physician this MSDS. |
| | Ingestion: If swallowed, seek medical attention immediately. DO NOT INDUCE VOMITING. |
| | Inhalation: If inhaled remove from exposure and move to fresh air. Seek immediate medical attention. If not breathing give artificial respiration, if breathing is difficult give oxygen. |
| | Eye Contact: Flush eyes for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention. |
| | Skin Contact: Remove contaminated clothing immediately. Wash with plenty of soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse. |

Section 5. Fire and Explosion Hazard Data

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| Flash Point (Method Used): NA | Flammable Limits: LEL:NA UEL: NA |
| Extinguishing Media: Use alcohol foam, dry chemical, or carbon dioxide. | |
| Protective Equipment: Firefighters should wear protective equipment and self-contained breathing apparatus. | |
| Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions. | |

Section 6. Accidental Release Measures

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| Personal Precautions: Shut off all sources of ignition, ventilate spill area. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves, and eye protection. Avoid inhalation and contact with skin and eyes. Wear self-containing breathing apparatus, rubber boots, and heavy rubber gloves. Place contaminated material in a chemical waste container. |
| Environmental Precautions: Prevent dispersion of material. Do not allow to enter drains or water courses. |
| Clean-up Methods: Contact safety officer and ventilate area. Collect spilled material, prevent dispersion. Wash spill site. Keep in suitable closed containers for disposal. |

Section 7. Handling and Storage

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

Storage: Keep container tightly closed, protect from light, moist air, and steam. Storage should be **2-8°C**, dry, and away from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues.

Other Precautions: Keep respiratory protective device available

Section 8. Exposure Controls / Personal Protection

OHSA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Follow the usual precautionary measures for handling chemicals/powder. Avoid contact with skin, eyes and clothing. Keep away from food, beverages, and feed

Personal Protective Equipment:

Breathing Equipment: In case of brief exposure use a chemical fume hood or appropriate approved respiratory protection. Use respirators and components tested and approved under appropriate government standards such as NIOSHA (US), or CEN (EU)

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles

Body Protection: Wear lab coat or other protective work clothing. Immediately remove all contaminated clothing.

Other Protective Clothing or Equipment: Uniform, lab coat, or disposable lab wear.

Work / Hygienic Practices: Follow the usual precautionary measure for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.

Section 9. Physical and Chemical Properties

Boiling Point: Not determined

Density: Not determined

Flash Point: Not determined

Melting Point: Not determined

Auto Ignition: Product is not self-igniting

Solubility in Water: Partially Soluble

Danger of Explosion: Product does not present an explosion hazard

pH: Not determined

Solvent content: Organic Solvents-0.0%

Solids Content: 100%

Appearance: Yellow lyophilized cake.

Section 10. Stability and Reactivity

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| Stability: | Unstable | | Conditions to Avoid: Avoid exposure to light and moisture. May degrade on exposure to light. Stable under recommended storage conditions. |
| | Stable | X | |

Incompatibility (Materials to Avoid): Incompatible with acids and oxidizing agents. Avoid light.

Hazardous Decomposition or Byproducts: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides, and Hydrogen chloride gas.

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|----------------------------------|----------------|---|---|
| Hazardous Polymerization: | May Occur | | Conditions to Avoid: Light, moisture, and incompatible materials. |
| | Will Not Occur | X | |

Section 11. Toxicological Information**Acute Toxicity:****LD₅₀:** ORL-RAT, 2,500 mg/kg (Chloramphenicol 56-75-7)**LD₅₀:** ORL-RAT, 10,300 mg/kg (Chlortetracycline 64-72-2)**Chronic Toxicity:**

Carcinogenic Classification:

IARC: Group 2A (Chloramphenicol 56-75-7)

NTP: Reasonably anticipated (Chloramphenicol 56-75-7)

Suspected carcinogen. Suspected teratogen.

Section 12. Ecological Information**Ecotoxicity Tests:** The ecological effects of this product have not been fully investigated.**Section 13. Disposal Considerations****Waste Disposal Method:** Dispose in accordance with all applicable federal, state, and local environmental regulations. Keep waste separate. Contact a licensed professional waste disposal service to dispose of this material.

RCRA Hazardous Waste: No

Burn in a chemical incinerator equipped with an afterburner and scrubber.

Container Information: Do not remove labels from containers. Dispose of as unused product.**Section 14. Transport Information**

Non-Hazardous for transportation: This mixture is considered to be non-hazardous for transport.

Section 15. Regulatory Information**EU Regulations Hazard Symbol(s):** Chlortetracycline: Xn (Harmful) Chloramphenicol: T (Toxic)**Risk Phrases:**

R 23/24/25 Toxic by inhalation, in contact with skin, and if swallowed.

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

R 42/43 May cause sensitization by inhalation and skin contact

R45 May cause cancer

R60/61 May impair fertility, May cause harm to the unborn child

R63 Possible risk of harm to the unborn child

Safety Phrases:

S 22 Do not breath dust

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye protection

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.