


SAFETY DATA SHEET

1. IDENTIFICATION

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|----------------------------|---|
| 1.1. Product Name | Stemolecule™ Thiazovivin |
| 1.2. Catalog Number | 04-0017 |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications |
| 1.4. Manufacturer/Supplier | Stemgent®, Inc. 4 Hartwell Place Lexington, MA 02421 USA (617) 245-0000 |
| 1.5. In Case of Emergency | <ul style="list-style-type: none"> For medical emergencies, contact your local emergency center. For transportation emergencies, contact your local transportation authorities. For other non-medical or environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday. |

2. HAZARDS IDENTIFICATION

- | | |
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| 2.1. Classification | GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) <ul style="list-style-type: none"> Acute toxicity, Oral (Category 4), H302 |
| 2.2. Signal Word | Warning |
| 2.3. Symbol |  |
| 2.4. Hazard Statement(s) | Harmful if swallowed. |
| 2.5. Precautionary Statement(s) | <ul style="list-style-type: none"> Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Dispose of contents/container to an approved waste disposal plant |
| 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS | None. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

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|-----------------------|---|
| 3.1. Chemical Name | Stemolecule™ Thiazovivin |
| 3.2. Synonyms | N-benzyl-2-(pyrimidin-4-ylamino)thiazole-4-carboxamide |
| 3.3. Chemical Formula | C ₂₂ H ₂₄ N ₂ O ₈ •HCL•1/2 (H ₂ O)•1/2 (C ₂ H ₆ O) |
| 3.4. Molecular Weight | 311.36 g/mol |
| 3.5. CAS Number | 1226056-71-8 |



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4. FIRST AID MEASURES

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| <p>4.1. First Aid Instructions</p> <ul style="list-style-type: none"> • General Advice • Eyes • Skin • Ingestion • Inhalation • Puncture Wounds <p>4.2. Most Important Symptoms/effects, acute and immediate</p> <p>4.3. Indications of immediate medical attention and special treatment needed</p> | <p>Move out of exposure area. Consult a physician.</p> <p>Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.</p> <p>Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.</p> <p>If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.</p> <p>If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.</p> <p>Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.</p> <p>Described in section 2.</p> <p>No data available.</p> |
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5. FIRE FIGHTING MEASURES

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| <p>5.1. Suitable extinguishing media.</p> <p>5.2. Specific hazards arising from the chemical</p> <p>5.3. Special protective equipment and precautions for fire-fighters</p> | <p>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p>Carbon oxides, Nitrogen oxides, hydrogen chloride gas</p> <p>Wear self contained breathing apparatus for firefighting if necessary.</p> |
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6. ACCIDENTAL RELEASE MEASURES

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| <p>6.1. Personal precautions, protective equipment, and emergency procedures</p> <p>6.2. Environmental Precautions</p> <p>6.3. Methods and materials for containment and clean up</p> | <p>Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.</p> <p>Do not let product enter drains.</p> <p>Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.</p> |
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7. HANDLING AND STORAGE

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| <p>7.1 Precautions for safe handling</p> | <ul style="list-style-type: none"> • Avoid inhalation, contact with eyes, skin, and clothing. • Avoid prolonged or repeated exposure. • Provide appropriate exhaust ventilation at places where dust is formed. |
|--|--|



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- 7.2 Conditions for safe storage, including any incompatibilities
- For other precautions see section 2.5.
- Keep tightly closed. Store at 4°C protected from light. Following reconstitution, store aliquots at -20°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 8.1. Control Parameters | No known occupational exposure limits values. |
| 8.2. Appropriate engineering controls | Safety shower and eye bath. Mechanical exhaust required. |
| 8.3. Protection measures and Personal Protective Equipment | Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. |
| • Respiratory Protection | Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EN 143) respirator cartridges. |
| • Eye Protection | Chemical safety goggles. |
| • Skin Protection | Protective gloves and lab coat. |

9. PHYSICAL/CHEMICAL PROPERTIES

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| 9.1. Appearance | White solid |
| 9.2. Odor | No data available. |
| 9.3. Odor Threshold | No data available. |
| 9.4. pH | No data available. |
| 9.5. Melting point/freezing point | No data available. |
| 9.6. Initial boiling point and boiling range | No data available. |
| 9.7. Flash point | No data available. |
| 9.8. Evaporation rate | No data available. |
| 9.9. Flammability (solid, gas); | No data available. |
| 9.10. Upper/lower flammability or explosive limits | No data available. |
| 9.11. Vapor pressure | No data available. |
| 9.12. Vapor density | No data available. |
| 9.13. Relative density | No data available. |
| 9.14. Solubility(ies) | 100mM in Dimethylsulfoxide. |
| 9.15. Partition coefficient: n-octanol/water | log Pow: 3.003 |
| 9.16. Auto-ignition temperature | No data available. |



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| 9.17. Decomposition temperature | No data available. |
| 9.18. Viscosity | No data available. |
| 9.19. Explosive properties | No data available. |
| 9.20. Oxidizing properties | No data available. |

10. STABILITY/REACTIVITY

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|--|--------------------------------------|
| 10.1. Reactivity | No data available. |
| 10.2. Chemical Stability | Stable under recommended conditions. |
| 10.3. Possibility of hazardous reactions | No data available. |
| 10.4. Conditions to Avoid | No data available. |
| 10.5. Incompatible materials | Strong oxidizing agents. |
| 10.6. Hazardous decomposition products | No data available. |

11. TOXICOLOGICAL INFORMATION

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| 11.1. Toxicological effects | No data available. |
| <ul style="list-style-type: none"> Acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity | <p>No data available.</p> <ul style="list-style-type: none"> IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen. ACGIH: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen. NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen. OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen. |
| <ul style="list-style-type: none"> Reproductive Toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard | <p>No data available.</p> <p>Inhalation – May cause respiratory irritation.</p> <p>No data available.</p> <p>No data available.</p> |



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| 11.2. Symptoms related to the physical, chemical and toxicological characteristics | No data available. |
| 11.3. Effects of Short-Term Exposure | No data available. |
| 11.4. Effects of Long-Term Exposure | No data available. |
| 11.5. Numerical measures of toxicity | No data available. |
| 11.6. Other Information | None. |

12. ECOLOGICAL INFORMATION

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| 12.1. Toxicity | No data available. |
| 12.2. Persistence and degradability | No data available. |
| 12.3. Bioaccumulative potential | No data available. |
| 12.4. Mobility in soil | No data available. |
| 12.5. Results of PBT and vPvB assessment | Not applicable. |
| 12.6. Other adverse effects | No data available |

13. DISPOSAL CONSIDERATIONS

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| 13.1. Disposal Method | Waste must be disposed of in accordance with federal, state, and local environmental control regulations. |
| 13.2. Personal safety | Refer to section 8. |

14. TRANSPORT INFORMATION

This product is considered non-hazardous for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations

- SARA 313 components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
- SARA 302 components Does not contain any components subject to reporting.
- SARA 311/312 Hazards Acute health hazard.
- Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61) Does not contain any components subject to reporting.

U.S. State Regulations

- California Proposition 65 Does not contain any components subject to reporting.



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| <ul style="list-style-type: none"> • Massachusetts Right To Know Components • Pennsylvania Right To Know Components • New Jersey Right To Know Components | <p>Does not contain any components subject to reporting.</p> <p>Does not contain any components subject to reporting.</p> <p>Does not contain any components subject to reporting.</p> |
| WHMIS Hazard Class | Not controlled under WHMIS (Canada). |

16. OTHER INFORMATION

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| Notice | The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent, Inc. website for terms and conditions of sale. |
| Preparation Date | March 31, 2016 |
| Version No. | 1.2 |
| Prepared by | Quality Control |

END OF SAFETY DATA SHEET



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