


## SAFETY DATA SHEET

### 1. IDENTIFICATION

- |                            |   |
|----------------------------|---|
| 1.1. Product Name          | Stemolecule™ ALK5 Inhibitor   |
| 1.2. Catalog Number        | 04-0015   |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications  |
| 1.4. Manufacturer/Supplier | Stemgent®, Inc.<br>4 Hartwell Place<br>Lexington, MA 02421 USA<br>(617) 245-0000  |
| 1.5. In Case of Emergency  | <ul style="list-style-type: none"> <li>For medical emergencies, contact your local emergency center.</li> <li>For transportation emergencies, contact your local transportation authorities.</li> <li>For other non-medical or environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday.</li> </ul> |

### 2. HAZARDS IDENTIFICATION

- |  |   |
|--|---|
| 2.1. Classification  | GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) <ul style="list-style-type: none"> <li>Acute toxicity, Oral (Category 4), H301</li> </ul>  |
| 2.2. Signal Word   | Danger.   |
| 2.3. Symbol  |   |
| 2.4. Hazard Statement(s)   | Toxic if swallowed.   |
| 2.5. Precautionary Statement(s)                                    | <ul style="list-style-type: none"> <li>Wash skin thoroughly after handling.</li> <li>Do not eat, drink, or smoke when using this product.</li> <li>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>Rinse mouth.</li> <li>Store locked up.</li> <li>Dispose of contents/container to an approved waste disposal plant</li> </ul> |
| 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS | None.   |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

- |                       |   |
|-----------------------|---|
| 3.1. Chemical Name    | Stemolecule™ ALK5 Inhibitor                                     |
| 3.2. Synonyms         | 2-(3-(6-Methylpyridine-2-yl)-1H-pyrazol-4-yl)-1,5-naphthyridine |
| 3.3. Chemical Formula | C <sub>17</sub> H <sub>13</sub> N <sub>5</sub>                  |
| 3.4. Molecular Weight | 287.32 g/mol  |
| 3.5. CAS Number       | 446859-33-2   |



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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"> <li>• General Advice</li> <li>• Eyes</li> <li>• Skin</li> <li>• Ingestion</li> <li>• Inhalation</li> <li>• Puncture Wounds</li> </ul> <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> |
|--|---|

### 5. FIRE FIGHTING MEASURES

- |   |  |
|---|--|
| <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.</p> <p>Wear self contained breathing apparatus for firefighting if necessary.</p> |
|---|--|

### 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| <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>Prevent further leakage or spillage if safe to do so. 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> |
|---|--|

### 7. HANDLING AND STORAGE

- |  |   |
|--|---|
| <p>7.1 Precautions for safe handling</p> | <ul style="list-style-type: none"> <li>• Avoid inhalation, contact with eyes, skin, and clothing.</li> <li>• Avoid prolonged or repeated exposure.</li> </ul> |
|--|---|



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- 7.2 Conditions for safe storage, including any incompatibilities
- Provide appropriate exhaust ventilation at places where dust is formed.
  - 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

- 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
- Respiratory Protection Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.
  - Eye Protection Chemical safety goggles.
  - Skin Protection Protective gloves and lab coat. Use nitrile rubber gloves with minimum layer thickness of 0.11 mm.

### 9. PHYSICAL/CHEMICAL PROPERTIES

- 9.1. Appearance Yellow 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 191°C (376°F)
- 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, 17 mM in Methanol.
- 9.15. Partition coefficient: n-octanol/water log Pow: 3.659
- 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

10.1. Reactivity	No data available.
10.2. Chemical Stability	This product is stable under recommended storage 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

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

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

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	Not hazardous.
• 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"> <li>• Massachusetts Right To Know Components</li> <li>• Pennsylvania Right To Know Components</li> <li>• New Jersey Right To Know Components</li> </ul>	<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

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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