SAFETY DATA SHEET

1. IDENTIFICATION
   1.1. Product Name: Stemolecule™ SB431542
   1.2. Catalog Number: 04-0010, 04-0010-10
   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:
      • 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
   2.1. Classification: Not a hazardous substance or mixture.
   2.2. Signal Word: Not applicable.
   2.3. Symbol: Not applicable.
   2.4. Hazard Statement(s): Not applicable.
   2.5. Precautionary Statement(s): Not applicable.
   2.6. Hazards not otherwise classified (HNOC) or not covered by GHS: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS
   3.1. Chemical Name: Stemolecule™ SB431542
   3.2. Synonyms:
      4-[(5-Benzol[1,3]dioxol-5-yl)-4-pyrdin-2-yl-1H-imidazol-2-yl]-benzamide
      4-[4-[1,3-Benzodioxol-5-yl]-5-(2-pyridinyl)-1H-imidazol-2-yl]-benzamide
      4-[4-[3,4-Methylenedioxyphenyl]-5-(2-pyridyl)-1H-imidazol-2-yl]-benzamide
   3.3. Chemical Formula: C_{22}H_{16}N_{4}O_{3}
   3.4. Molecular Weight: 384.39 g/mol
   3.5. CAS Number: 301836-41-9

4. FIRST AID MEASURES
   4.1. First Aid Instructions:
      • General Advice: Move out of exposure area. Consult a physician.
      • Eyes: Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.
      • Skin: Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.
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1. Ingestion
   If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.

2. Inhalation
   If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.

3. Puncture Wounds
   Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.

4.2. Most Important Symptoms/effects, acute and immediate
   Described in section 2.

4.3. Indications of immediate medical attention and special treatment needed
   No data available.

5. FIRE FIGHTING MEASURES
   5.1. Suitable extinguishing media.
   Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

   5.2. Specific hazards arising from the chemical
   Carbon oxides, Nitrogen oxides.

   5.3. Special protective equipment and precautions for fire-fighters
   Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES
   6.1. Personal precautions, protective equipment, and emergency procedures
   Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of dust.

   6.2. Environmental Precautions
   No special precautions required.

   6.3. Methods and materials for containment and clean up
   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.

7. HANDLING AND STORAGE
   7.1. Precautions for safe handling
   - Avoid inhalation, contact with eyes, skin, and clothing.
   - Avoid prolonged or repeated exposure.
   - Provide appropriate exhaust ventilation at places where dust is formed.
   - For other precautions see section 2.5.

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

8. EXPOSURE CONTROLS/PERSOAL PROTECTION
   8.1. Control Parameters
   No known occupational exposure limits values.
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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.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1. Appearance
White powder

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.

100mM in Dimethylsulfoxide.

9.15. Partition coefficient: n-octanol/water
No data available.

9.16. Auto-ignition temperature
No data available.

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 acids, Strong bases.

10.6. Hazardous decomposition products
No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Toxicological effects
No data available.

- Acute toxicity
  No data available.

- Skin corrosion/irritation
  No data available.

- Serious eye damage/eye irritation
  No data available.

- Respiratory or skin sensitization
  No data available.

- Germ cell mutagenicity
  No data available.

- Carcinogenicity
  No data available.
  - 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.

- Reproductive Toxicity
  No data available.

- Specific target organ toxicity - single exposure
  No data available.

- Specific target organ toxicity - repeated exposure
  No data available.

- Aspiration hazard
  No data available.

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.
- Massachusetts Right To Know Components
  Does not contain any components subject to reporting.
- Pennsylvania Right To Know Components
  Does not contain any components subject to reporting.
- New Jersey Right To Know Components
  Does not contain any components subject to reporting.

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.

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1.2

Prepared by
Quality Control

END OF SAFETY DATA SHEET