SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product Name
Stemolecule™ BIO

1.2. Catalog Number
04-0003

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 non-environmental emergencies please call
(617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday.

2. HAZARDS IDENTIFICATION

2.1. Classification
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
- Skin irritation (Category 2), H315
- Eye irritation (Category 2A), H319
- Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2. Signal Word
Warning

2.3. Symbol

2.4. Hazard Statement(s)
- H315 Causes skin irritation
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

2.5. Precautionary Statement(s)
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear eye protection/face protection.
- P280 Wear protective gloves
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
1. Personal Protection

- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before re-use.
- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: 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

3.1. Chemical Name: Stemolecule™ BIO

3.2. Synonyms: (2’Z,3’E)-6-Bromoirindirubin-3’-oxime

3.3. Chemical Formula: C_{16}H_{10}BrN_{3}O_{2}

3.4. Molecular Weight: 356.17 g/mol

3.5. CAS Number: 667463-62-9

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.
- Ingestion: If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
- Inhalation: If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
- 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, Hydrogen bromide gas
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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
Do not let product enter drains.

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/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.

9. PHYSICAL/CHEMICAL PROPERTIES
9.1. Appearance
Dark red 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.
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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.

100 mM in Dimethylsulfoxide, 10 mM in Ethanol.

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
Avoid light and high temperature.

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.

• 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.
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- Carcinogenicity
  - 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
  - Specific target organ toxicity - single exposure
  - Specific target organ toxicity - repeated exposure
  - 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
  - Not applicable.

- 12.5. Results of PBT and vPvB assessment
  - No data available.

- 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
  Does not contain any components subject to reporting.
- 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