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 REPROCELL USA
       9000 Virginia Manor Road
       Beltsville, MD 20705
       301-470-3362
   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. GHS classification according to Annex II
       • 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 / fumes / gas / mist / vapors / spray
       • P264: Wash skin thoroughly after handling.
       • P271: Use only in a well-ventilated area
       • P280: Wear protective gloves / eye protection / face protection.
       • P302+P352: IF ON SKIN, wash with plenty of soap and water.
       • P304+P340: IF INHALED, remove victim to fresh air and keep at rest in a comfortable position for breathing.
       • 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.
• P337+P313: If eye irritation persists, get medical advice / attention.
• P362: Take off contaminated clothing and wash before reuse.
• 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-Bromindirubin-3'-oxime

3.3 Chemical formula
C₁₆H₁₀BrN₃O₂

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. 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 the victim is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.

• Inhalation
If inhaled, remove victim 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

   5.3 Special protective equipment and precautions for firefighters
   Wear self-contained breathing apparatus and full turnout gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES
   6.1 Personal precautions, protective equipment and emergency procedures
   Wear protective equipment (Section 8). Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist, gas, or dust. Ensure adequate ventilation.

   6.2 Environmental precautions
   Prevent further spillage or leakage if safe to do so. Do not let product enter drains.

   6.3 Methods and materials for containment and clean up
   Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. 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.
   • 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   8.1 Control parameters
   No known occupational exposure limits.

   8.2 Appropriate engineering controls
   Safety shower and eye wash. 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). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) particle respirator.
   • 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.
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): 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 Possible 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.
- Carcinogenicity: No data available.
  - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
  - ACGIH: No component 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 the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
• OSHA: No component 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
  Inhalation – May cause respiratory irritation.
- 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
No data available.
12.6 Other adverse effects
No data available.

13. DISPOSAL CONSIDERATIONS
13.1 Disposal method
Unused product and 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
- DOT (US)
  Not dangerous goods
- IMDG
  Not dangerous goods
- IMDG
  Not dangerous goods
- IATA
  Not dangerous goods

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).

Regulation (EC) No 1272/2008 (EU-GHS/CLP)
Not hazardous

Not hazardous

Regulatory information statement
This SDS was prepared in accordance with Regulation (EC) No. 1272/2008 and European Directive 67/548/EEC as amended.

16. OTHER INFORMATION
Notice
The information in this Safety Data Sheet is believed to be correct at the date of publication, but it 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. REPROCELL, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See REPROCELL, Inc. website for terms and conditions of sale.

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END OF SAFETY DATA SHEET