


SAFETY DATA SHEET

1. IDENTIFICATION

- | | |
|----------------------------|---|
| 1.1. Product Name | Stemolecule™ A83-01 |
| 1.2. Catalog Number | 04-0014, 04-0014-10 |
| 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 | <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

- | | |
|---------------------------------|---|
| 2.1. Classification | <p>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)</p> <ul style="list-style-type: none"> • Acute toxicity, Oral (Category 4), H302 • Skin irritation (Category 2), H315 • Eye irritation (Category 2A), H319 • Specific target organ toxicity – single exposure (Category 3), respiratory system, H335 • Chronic aquatic toxicity (Category 4), H413 |
| 2.2. Signal Word | Warning. |
| 2.3. Symbol |  |
| 2.4. Hazard Statement(s) | <ul style="list-style-type: none"> • H302 Harmful if swallowed. • H315 Causes skin irritation. • H319 Causes serious eye irritation. • H335 May cause respiratory irritation. • H413 May cause long lasting harmful effects to aquatic life. |
| 2.5. Precautionary Statement(s) | <ul style="list-style-type: none"> • P261 Avoid breathing dust/fume/gas/mist/vapours/spray. • P264 Wash skin thoroughly after handling. • P270 Do not eat, drink or smoke when using this product. • P271 Use only outdoors in a well-ventilated area. • P273 Avoid release to the environment. • P280 Wear protective gloves/eye protection/face protection. • P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |



AMERICAS • HUMAN TISSUE
9000 Virginia Manor Road, Suite 207
Beltsville, MD 20705, USA
Tel: (301) 470-3362
Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
4 Hartwell Place
Lexington, MA 02421, USA
Tel: (617) 245-0000
Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
KDX Shin-yokohama381 Bldg9F
3-8-11, Shin-yokohama, Kohoku-ku,
Yokohama, Kanagawa 222-0033, Japan
Tel: +81 45 475 3887
Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
NETPark Incubator
Thomas Wright Way
Sedgefield, Co. Durham
TS21 3FD, UNITED KINGDOM
Tel: +44 (0)1740 625 266
Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
HUMAN TISSUE ASSAYS**
Weipers Centre, Garscube Estate
Bearsden Road, Glasgow G61 1QH
United Kingdom
Tel: +44 (0)141 330 3831
Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

- | | |
|--|--|
| <ul style="list-style-type: none"> • P302 + P352 • P304 + P340 | <p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> |
| <ul style="list-style-type: none"> • P305 + P351 + P338 | <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> |
| <ul style="list-style-type: none"> • P312 • P330 | <p>Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>Rinse mouth.</p> |
| <ul style="list-style-type: none"> • P332 + P313 • P337 + P313 | <p>If skin irritation occurs: Get medical advice/attention.</p> <p>If eye irritation persists: Get medical advice/attention.</p> |
| <ul style="list-style-type: none"> • P362 | <p>Take off contaminated clothing and wash before reuse.</p> |
| <ul style="list-style-type: none"> • P403 + P233 • P405 | <p>Store in a well-ventilated place. Keep container tightly closed.</p> <p>Store locked up.</p> |
| <ul style="list-style-type: none"> • P501 | <p>Dispose of contents/container to an approved waste disposal plant.</p> |
| <p>2.6. Hazards not otherwise classified (HNOC) or not covered by GHS</p> | <p>None.</p> |

3. COMPOSITION/INFORMATION ON INGREDIENTS

- | | |
|-----------------------|---|
| 3.1. Chemical Name | Stemolecule™ A83-01 |
| 3.2. Synonyms | 3-(6-Methyl-2-pyridinyl)-N-phenyl-4-(4-quinolinyl)-1H-pyrazole-1-carbothioamide |
| 3.3. Chemical Formula | C ₂₅ H ₁₉ N ₅ S |
| 3.4. Molecular Weight | 421.52 g/mol |
| 3.5. CAS Number | 909910-43-6 |

4. FIRST AID MEASURES

- | | |
|--|--|
| 4.1. First Aid Instructions | |
| <ul style="list-style-type: none"> • General Advice • Eyes • Skin • Ingestion • Inhalation • Puncture Wounds | <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> |
| 4.2. Most Important Symptoms/effects, acute and immediate | Described in section 2. |



AMERICAS • HUMAN TISSUE
 9000 Virginia Manor Road, Suite 207
 Beltsville, MD 20705, USA
 Tel: (301) 470-3362
 Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
 4 Hartwell Place
 Lexington, MA 02421, USA
 Tel: (617) 245-0000
 Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
 KDX Shin-yokohama381 Bldg9F
 3-8-11, Shin-yokohama, Kohoku-ku,
 Yokohama, Kanagawa 222-0033, Japan
 Tel: +81 45 475 3887
 Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
 NETPark Incubator
 Thomas Wright Way
 Sedgefield, Co. Durham
 TS21 3FD, UNITED KINGDOM
 Tel: +44 (0)1740 625 266
 Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
 HUMAN TISSUE ASSAYS**
 Weipers Centre, Garscube Estate
 Bearsden Road, Glasgow G61 1QH
 United Kingdom
 Tel: +44 (0)141 330 3831
 Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

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, Sulfur 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. Ensure adequate ventilation.

6.2. Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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
Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.



AMERICAS • HUMAN TISSUE
9000 Virginia Manor Road, Suite 207
Beltsville, MD 20705, USA
Tel: (301) 470-3362
Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
4 Hartwell Place
Lexington, MA 02421, USA
Tel: (617) 245-0000
Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
KDX Shin-yokohama381 Bldg9F
3-8-11, Shin-yokohama, Kohoku-ku,
Yokohama, Kanagawa 222-0033, Japan
Tel: +81 45 475 3887
Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
NETPark Incubator
Thomas Wright Way
Sedgefield, Co. Durham
TS21 3FD, UNITED KINGDOM
Tel: +44 (0)1740 625 266
Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
HUMAN TISSUE ASSAYS**
Weipers Centre, Garscube Estate
Bearsden Road, Glasgow G61 1QH
United Kingdom
Tel: +44 (0)141 330 3831
Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

- 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. For a higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EN 143) respiratory cartridges.
- Eye Protection Chemical safety goggles.
- Skin Protection Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

- | | |
|--|----------------------------|
| 9.1. Appearance | Pale 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 | 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) | 50mM in Dimethylsulfoxide. |
| 9.15. Partition coefficient: n-octanol/water | log Pow: 6.228 |
| 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 | Exposure to air may affect product quality. |
| 10.5. Incompatible materials | Strong oxidizing agents. |



AMERICAS • HUMAN TISSUE
9000 Virginia Manor Road, Suite 207
Beltsville, MD 20705, USA
Tel: (301) 470-3362
Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
4 Hartwell Place
Lexington, MA 02421, USA
Tel: (617) 245-0000
Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
KDX Shin-yokohama381 Bldg9F
3-8-11, Shin-yokohama, Kohoku-ku,
Yokohama, Kanagawa 222-0033, Japan
Tel: +81 45 475 3887
Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
NETPark Incubator
Thomas Wright Way
Sedgefield, Co. Durham
TS21 3FD, UNITED KINGDOM
Tel: +44 (0)1740 625 266
Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
HUMAN TISSUE ASSAYS**
Weipers Centre, Garscube Estate
Bearsden Road, Glasgow G61 1QH
United Kingdom
Tel: +44 (0)141 330 3831
Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

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
 - 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 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.



AMERICAS • HUMAN TISSUE
 9000 Virginia Manor Road, Suite 207
 Beltsville, MD 20705, USA
 Tel: (301) 470-3362
 Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
 4 Hartwell Place
 Lexington, MA 02421, USA
 Tel: (617) 245-0000
 Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
 KDX Shin-yokohama381 Bldg9F
 3-8-11, Shin-yokohama, Kohoku-ku,
 Yokohama, Kanagawa 222-0033, Japan
 Tel: +81 45 475 3887
 Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
 NETPark Incubator
 Thomas Wright Way
 Sedgefield, Co. Durham
 TS21 3FD, UNITED KINGDOM
 Tel: +44 (0)1740 625 266
 Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
 HUMAN TISSUE ASSAYS**
 Weipers Centre, Garscube Estate
 Bearsden Road, Glasgow G61 1QH
 United Kingdom
 Tel: +44 (0)141 330 3831
 Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

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	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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	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.
• 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



AMERICAS • HUMAN TISSUE
9000 Virginia Manor Road, Suite 207
Beltsville, MD 20705, USA
Tel: (301) 470-3362
Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
4 Hartwell Place
Lexington, MA 02421, USA
Tel: (617) 245-0000
Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
KDX Shin-yokohama381 Bldg9F
3-8-11, Shin-yokohama, Kohoku-ku,
Yokohama, Kanagawa 222-0033, Japan
Tel: +81 45 475 3887
Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
NETPark Incubator
Thomas Wright Way
Sedgefield, Co. Durham
TS21 3FD, UNITED KINGDOM
Tel: +44 (0)1740 625 266
Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
HUMAN TISSUE ASSAYS**
Weipers Centre, Garscube Estate
Bearsden Road, Glasgow G61 1QH
United Kingdom
Tel: +44 (0)141 330 3831
Email: info@biopta.com
www.biopta.com

SAFETY DATA SHEET

Preparation Date
Version No.
Prepared by

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.

May 2, 2016
1.3
Quality Control

END OF SAFETY DATA SHEET



AMERICAS • HUMAN TISSUE
9000 Virginia Manor Road, Suite 207
Beltsville, MD 20705, USA
Tel: (301) 470-3362
Email: info@bioserve.com
www.bioserve.com



AMERICAS • REAGENTS
4 Hartwell Place
Lexington, MA 02421, USA
Tel: (617) 245-0000
Email: info@stemgent.com
www.stemgent.com



ASIA PACIFIC
KDX Shin-yokohama381 Bldg9F
3-8-11, Shin-yokohama, Kohoku-ku,
Yokohama, Kanagawa 222-0033, Japan
Tel: +81 45 475 3887
Email: info_jp@reprocell.com
www.reprocell.com/en



EUROPE
NETPark Incubator
Thomas Wright Way
Sedgefield, Co. Durham
TS21 3FD, UNITED KINGDOM
Tel: +44 (0)1740 625 266
Email: info@reinnervate.com
www.reinnervate.com



**AMERICAS & EUROPE
HUMAN TISSUE ASSAYS**
Weipers Centre, Garscube Estate
Bearsden Road, Glasgow G61 1QH
United Kingdom
Tel: +44 (0)141 330 3831
Email: info@biopta.com
www.biopta.com