


SAFETY DATA SHEET

1. IDENTIFICATION

- | | |
|----------------------------|---|
| 1.1. Product Name | Stemolecule™ Valproic Acid |
| 1.2. Catalog Number | 04-0007 |
| 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 | GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) <ul style="list-style-type: none"> Acute toxicity, Oral (Category 4), H302 |
| 2.2. Signal Word | Warning. |
| 2.3. Symbol |  |
| 2.4. Hazard Statement(s) | Harmful if swallowed. |
| 2.5. Precautionary Statement(s) | <ul style="list-style-type: none"> Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. 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™ Valproic Acid |
| 3.2. Synonyms | 2-Propylpentanoic Acid
Sodium Valproate |
| 3.3. Chemical Formula | C ₈ H ₁₅ N ₅ O ₂ |
| 3.4. Molecular Weight | 166.19 g/mol |
| 3.5. CAS Number | 1069-66-5 |



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. 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: In case of contact, 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, Sodium oxides.
- 5.3. Special protective equipment and precautions for fire-fighters: Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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: 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.



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

7. HANDLING AND STORAGE

- | | |
|--|--|
| 7.1 Precautions for safe handling | <ul style="list-style-type: none"> • 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. |
| <ul style="list-style-type: none"> • 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. |
| <ul style="list-style-type: none"> • Eye Protection | Chemical safety goggles. |
| <ul style="list-style-type: none"> • Skin Protection | Protective gloves and lab coat. |

9. PHYSICAL/CHEMICAL PROPERTIES

- | | |
|--|---|
| 9.1. Appearance | White 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, 300 mM in water. |



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

9.15. Partition coefficient: n-octanol/water	log Pow: 2.603
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	Hygroscopic; keep container tightly closed.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous decomposition products	Carbon monoxide, carbon dioxide, and other metallic oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Toxicological effects	
• Acute toxicity	<ul style="list-style-type: none"> • LD50 Oral – Rat – 670 mg/kg • Inhalation: No data available • Dermal: 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	<ul style="list-style-type: none"> • 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.



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

- 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 Acute health hazard, Chronic health hazard.



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"> Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61) 	Does not contain any components subject to reporting.
U.S. State Regulations	
<ul style="list-style-type: none"> California Proposition 65 Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components 	<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> <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	February 19,2016
Version No.	1.2
Prepared by	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
 Sedgfield, 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