1. IDENTIFICATION

1.1. Product Name
Stemgent® Sox2 Antibody (Affinity Purified), Rabbit anti-Mouse/Human

1.2. Catalog Number
09-0024

1.3. Uses and restrictions
For research use only. Not for use in diagnostic or therapeutic applications.

1.4. Manufacturer/Supplier
Stemgent, Inc.
51 Moulton St.
Cambridge, MA 02138 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
According to 29 CFR 1910.1200(d), hazardous ingredients at less than 1% and carcinogens at less than 0.1% are considered non-hazardous.

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
Stemgent Sox2 Antibody (Affinity Purified), Rabbit anti-Mouse/Human

3.2. Synonyms
SRY (Sex determining region Y)-box 2 Antibody, Rabbit anti-Mouse/Human

3.3. Chemical Formula
Not available.

3.4. Molecular Weight
Not available.

3.5. CAS Number
Not available.

HAZARDOUS COMPONENTS IN MIXTURE

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No./EC-No.</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>CAS-No: 56-81-5; EC-No: 200-289-5</td>
<td>Not available.</td>
<td>10%</td>
</tr>
<tr>
<td>Thimerosal</td>
<td>CAS-No: 54-64-8; EC-No: 200-210-4</td>
<td>Acute Tox. 2; Acute Tox.1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310 + H330, H373, H410</td>
<td>0.005%</td>
</tr>
</tbody>
</table>
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
- No data available.

5.3. Special protective equipment and precautions for fire-fighters
- 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
- Use personal protective equipment (see section 8). Avoid breathing vapors, mist, or gas.

6.2. Environmental Precautions
- Do not let product enter drain.

6.3. Methods and materials for containment and clean up
- Keep in suitable, closed containers for disposal. Use absorbent, non-reactive material to contain liquid spill. Dispose of absorbent material used to clean spills in accordance with federal, state, and local environmental control regulations.
7. HANDLING AND STORAGE

7.1. Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
- Avoid prolonged or repeated exposure.
- Keep in well-ventilated area.
- For other precautions see section 2.5.

7.2. Conditions for safe storage, including any incompatibilities
Store at 4°C. Keep container tightly closed, in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
Thimerosal, CAS-No. 54-64-8
- Potential for dermal absorption
- Central nervous system impairment
- Kidney damage
- Danger of cutaneous absorption
Thimerosal Exposure Limits
- Ceiling Limit: 0.1mg/m³ – USA. NIOSH Recommended Exposure Limits
- TWA: 0.5mg/m³ – USA. NIOSH Recommended Exposure Limits
- 0.1mg/m³ – USA. ACGISH Threshold Limit Values (TLV)
STEL: 0.03mg/m³ – USA. ACGIH Threshold Limit Values (TLV)
Glycerol, CAS-No. 56-81-5
- Upper respiratory tract irritation
Glycerol Exposure Levels
- TWA: 5mg/m³ – USA. OSHA Table Z-1 Limits for Air Contaminants – 1910.1000
- 10mg/m³ – USA. OSHA Table Z-1 for Limits for Air Contaminants – 1910.1000, USA. ACGIH Threshold Limit Values (TLV)
- 15mg/m³ – USA. Occupational Exposure Limits (OSHA) – Table Z-1 for air contaminants
Sodium azide, CAS-No:26628-22-8
- Potential for dermal absorption
Sodium azide Exposure Levels
- Ceiling Limit: 0.3 mg/m³ – USA. NIOSH Recommended Exposure Limits
- 0.29 mg/m³ - USA. ACGIH Threshold Limit Value (TLV)

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.
- Respiratory Protection
Respiratory protection is not required. Where protection from nuisance exposure is desired use type OV/AG (US) or type ABEK (EU EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
9. PHYSICAL/CHEMICAL PROPERTIES

9.2. Odor: No data available.
9.3. Odor Threshold: No data available.
9.4. pH: 7.2
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.
9.10. Upper/lower flammability or explosive limits: No data available.
9.11. Vapor pressure: No data available.
9.18. Viscosity: 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.
10.3. Possibility of hazardous reactions: No data available.
10.4. Conditions to Avoid: No data available.
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:
  - 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: Liver – Irregularities – Based on Human Evidence (Sodium azide).

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: 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
  The following components are subject to reporting levels established by SARA Title III, Section 302:
  Sodium azide, CAS No. 26628-22-8, Revision Date: 2007-07-01
- 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
  Sodium azide, CAS No. 26628-22-8, Revision Date: 2007-07-01
- Pennsylvania Right To Know Components
  Thimerosal, CAS No. 54-64-8
  Glycerol, CAS No. 56-81-5
  Disodium hydrogen orthophosphate, CAS No. 7558-79-4, Revision Date: 2007-03-01
  Sodium azide, CAS No. 26628-22-8, Revision Date: 2007-07-01
- New Jersey Right To Know Components
  Thimerosal, CAS No. 54-64-8
  Glycerol, CAS No. 56-81-5
  Disodium hydrogen orthophosphate, CAS No. 7558-79-4, Revision Date: 2007-03-01
  Sodium azide, CAS No. 26628-22-8, Revision Date: 2007-07-01

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
May 26th, 2015

Version No.
1.1

Prepared by
Quality Control
END OF SAFETY DATA SHEET