SECTION 1: Identification of the substance or mixture and of the supplier

<table>
<thead>
<tr>
<th>GHS Product Identifier</th>
<th>Goat Anti-Mouse IgE-HRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>N/A</td>
</tr>
<tr>
<td>Product type</td>
<td>Liquid</td>
</tr>
<tr>
<td>Product code</td>
<td>1110-05</td>
</tr>
<tr>
<td>Chemical formula</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS No</td>
<td>Not applicable</td>
</tr>
<tr>
<td>SDS No.</td>
<td>2230699</td>
</tr>
<tr>
<td>Relevant Identified uses of the</td>
<td>Not applicable</td>
</tr>
<tr>
<td>substance or mixture and uses</td>
<td></td>
</tr>
<tr>
<td>advised against</td>
<td></td>
</tr>
</tbody>
</table>

Supplier's details
Southern Biotechnology Associates, Inc.
160 Oxmoor Boulevard
Birmingham, Alabama 35209 USA
Tel: (205) 945-1774
Fax: (205) 945-8768
Website: www.southernbiotech.com

SECTION 2: Hazards identification

Classification of the substance or mixture
GHS-US classification
Not a hazardous substance or mixture

Label elements
GHS-US labeling
Hazard pictograms (GHS-US)
Not a hazardous substance or mixture

Other hazards
none

Unknown acute toxicity (GHS US)
No data available

Full text of H-phrases: see section 16

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Means of Identification</td>
<td>Not available</td>
</tr>
<tr>
<td>CAS Number/other identifiers</td>
<td>Not applicable</td>
</tr>
<tr>
<td>CAS Number</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Product Identifier</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>(CAS No.) 56-81-5 / [EINECS(EC#)] 200-289-5</td>
<td>50%</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.
SECTION 4: First aid measures

Description of first aid measures
First-aid measures general
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

First-aid measures after eye contact
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Consult a physician.

First-aid measures after inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Consult a physician.

First-aid measures after skin contact
Flush contaminated skin with plenty of water and soap. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

First-aid measures after ingestion
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If necessary, call a poison center.

Most important symptoms and effects, acute and delayed

Potential acute health effects
Eye contact
No known significant effects or critical hazards
Inhalation
No known significant effects or critical hazards
Skin contact
No known significant effects or critical hazards
Ingestion
May be harmful if swallowed.

Over-exposure signs/symptoms
Eye contact
No specific data
Inhalation
No specific data
Skin contact
No specific data
Ingestion
No specific data

Indication of any immediate medical attention and special treatment needed, if necessary
Notes to physician
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments
No specific treatment.

Protection of first-aiders
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
None known

Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx)
Hazardous thermal decomposition products
No specific data
Special protective actions for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: This product contains a material of biological origin. Use universal precautions during clean up procedures. Avoid breathing (vapor, mist). Use only in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment, see section 8.

For non-emergency personnel
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Reference to other sections
See Section 1 for emergency contact information, Section 13 for waste disposal, and Section 8 for exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Hygiene measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Technical measures: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Recommended storage temperature: 2 - 8°C

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>

**Exposure controls**

**Appropriate engineering controls**
Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

**Environmental exposure controls**
Do no let product enter drains.

**Personal protective equipment**
Protective goggles, gloves

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**
Impervious clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Eye protection**
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the
sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Conditions to avoid  No specific data
Incompatible materials  No specific data
Hazardous decomposition products  Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other information  When using, do not eat, drink, or smoke. May contain material of animal origin.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Physical state  Liquid
Color  Light amber to dark amber
Odor  Not available
Odor threshold  Not available
pH  Not available
Melting point  Not available
Boiling point  Not available
Flash Point  Not available
 Burning time  Not applicable
 Burning rate  Not applicable
Evaporation rate  Not available
Flammability (solid, gas)  Not available
Lower and upper explosive (flammable) limits  Not available
Vapor pressure  Not available
Vapor density  Not available
Relative density  Not available
Solubility  Soluble in the following materials: cold water and hot water.
Partition coefficient n-octanol/water  Not available
Auto-ignition temperature  Not available
Decomposition temperature  Not available
SADT  Not available
Viscosity  Not available
Other information  No additional information available

SECTION 10: Stability and reactivity

Reactivity  No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability  The product is stable.
Possibility Of Hazardous Reactions  Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions To Avoid  No specific data.
Incompatible Materials  Strong oxidizers
Hazardous Decomposition Products  No specific data.

SECTION 11: Toxicological information

Information on toxicological effects
Acute toxicity  No data available

Rev. 30-Apr-15
Conclusion/Summary: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available

Carcinogenicity:
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 by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available
Teratogenicity: 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

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.

Potential acute health effects
Eye contact: No known significant effects or critical hazards
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Eye contact: No specific data
Inhalation: No specific data
Skin contact: No specific data
Ingestion: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available

Long term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available

Potential chronic health effects: Not available

General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
**SECTION 12: Ecological information**

**Toxicity**  
No data available

**Persistence and degradability**  
No data available

**Bioaccumulative potential**  
No data available

**Mobility in soil**  
No data available

**Other adverse effects**  
No data available

**SECTION 13: Disposal considerations**

**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN proper</td>
<td>-</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
</tr>
</tbody>
</table>

Special precautions for user: Transport within user’s premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**SECTION 15: Regulatory information**

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 311: disodium hydrogenorthophosphate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602 Class I Substances Not listed

Clean Air Act Section 602 Class II Substances Not listed

DEA List I Chemicals (Precursor Chemicals) Not listed
DEA List II Chemicals (Essential Chemicals): Not listed

**SARA 302/304**

**Composition/information on ingredients**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**SARA 311/312**

**Classification** Chronic health hazard

**State regulations**

New Jersey
- Sodium Phosphate: 7558-79-4
- Glycerol: 56-81-5

New York
- Sodium Phosphate: 7558-79-4

Massachusetts
- Sodium Phosphate: 7558-79-4

Pennsylvania
- Sodium Phosphate: 7558-79-4
- Glycerol: 56-81-5

California
- Sodium Phosphate: 7558-79-4

Minnesota
- Glycerol: 56-81-5

Rhode Island
- Glycerol: 56-81-5

Canada inventory: All components are listed or exempted.

**International regulations**

**International lists**
- Australia inventory (AICS): All components are listed or exempted.
- China inventory (IECSC): All components are listed or exempted.
- Japan inventory: All components are listed or exempted.
- Korea inventory: All components are listed or exempted.
- Malaysia Inventory (EHS Register): All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
- Philippines inventory (PICCS): All components are listed or exempted.
- Taiwan inventory (CSNN): All components are listed or exempted.

**Chemical Weapons Convention List**
- Schedule I: Not listed
- Schedule II Chemicals: Not listed
- Schedule III Chemicals: Not listed

**SECTION 16: Other information**

**Indication of changes**: 30-Apr-15

**Other information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
GHS Full Text Phrases:

NFPA health : 0 - No unusual hazard
NFPA fire hazard : 0 - Not combustible
NFPA reactivity : 0 - Not reactive when mixed with water

HMIS III Rating
Health : 0 - Minimal Hazard
Flammability : 0 - Minimal Hazard
Physical : 0 - Minimal Hazard

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