

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

|                                                                                      |                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GHS Product Identifier</b>                                                        | Goat Fab Anti-Human IgG-UNLB                                                                                                                                                                                                    |
| <b>Other means of identification</b>                                                 | N/A                                                                                                                                                                                                                             |
| <b>Product type</b>                                                                  | Liquid                                                                                                                                                                                                                          |
| <b>Product code</b>                                                                  | 2041-01                                                                                                                                                                                                                         |
| <b>Chemical formula</b>                                                              | Not applicable                                                                                                                                                                                                                  |
| <b>CAS No</b>                                                                        | Not applicable                                                                                                                                                                                                                  |
| <b>SDS No.</b>                                                                       | 2231158                                                                                                                                                                                                                         |
| <b>Relevant Identified uses of the substance or mixture and uses advised against</b> | Not applicable                                                                                                                                                                                                                  |
| <b>Supplier's details</b>                                                            | Southern Biotechnology Associates, Inc.<br>160 Oxmoor Boulevard<br>Birmingham, Alabama 35209 USA<br>Tel: (205) 945-1774<br>Fax: (205) 945-8768<br>Website: <a href="http://www.southernbiotech.com">www.southernbiotech.com</a> |
| <b>Distributor and Emergency Phone No.</b>                                           | Refer to website for distributor and emergency phone numbers.<br>Tel: (205) 945-1774                                                                                                                                            |

## 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

|                                      |                |
|--------------------------------------|----------------|
| <b>Substance/Mixture</b>             | Mixture        |
| <b>Other Means of Identification</b> | Not available  |
| <b>CAS Number/other identifiers</b>  |                |
| <b>CAS Number</b>                    | Not applicable |

| Ingredient Name    | Product Identifier                             | Percentage |
|--------------------|------------------------------------------------|------------|
| Boric Acid         | (CAS No.) 10043-35-3 / [EINECS(EC#)] 201-191-5 | 0.6185%    |
| Sodium Tetraborate | (CAS No.) 1303-96-4 / [EINECS(EC#)] 215-540-4  | 0.9540%    |
| Sodium Chloride    | (CAS No.) 7647-14-5 / [EINECS(EC#)] 231-598-3  | 0.4385%    |

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

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

No special hazards determined

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:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Comply with applicable waste disposal regulations.

**Large spill:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. 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:** This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product. 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**

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**Control parameters**

| Component          | CAS-No.   | Value | Control parameters   | Basis      |
|--------------------|-----------|-------|----------------------|------------|
| Sodium Tetraborate | 1303-96-4 | TWA   | 5 mg/m <sup>3</sup>  | USA. NIOSH |
|                    |           |       | 10 mg/m <sup>3</sup> | MAC (NL)   |
|                    |           |       | 10 mg/m <sup>3</sup> | TLV (US)   |

**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 not 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**

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|                                              |                                                                    |
|----------------------------------------------|--------------------------------------------------------------------|
| Physical state                               | : Liquid                                                           |
| Color                                        | : Clear                                                            |
| Odor                                         | : Not available                                                    |
| Odor threshold                               | : Not available                                                    |
| pH                                           | : ~8.2                                                             |
| 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:<br>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. This material is hygroscopic. |
| Chemical Stability                 | The product is stable under recommended storage conditions.                                                              |
| Possibility Of Hazardous Reactions | Under normal conditions of storage and use, hazardous reactions will not occur.                                          |
| Conditions To Avoid                | No specific data                                                                                                         |
| Incompatible Materials             | Zirconium, strong acids, metallic salts                                                                                  |
| Hazardous Decomposition Products   | No specific data                                                                                                         |

## SECTION 11: Toxicological information

### Information on toxicological effects

|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                     | No data available                                                                                                                                       |
| 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:** Boric acid (CAS# 10043-35-3) has been identified in 1272/2008/EC as a category 2 Reproductive toxin. This product contains Boric acid at below the hazard concentration limit (<5.5%).  
Sodium Tetraborate (CAS# 1303-96-4) has been identified in 1272/2008/EC as a category 2 Reproductive toxin. This product contains Sodium Tetraborate at below the hazard concentration limit (<8.5%).

**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.

**Fertility effects:** No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Not available.

**SECTION 12: Ecological information**

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Toxicity</b>                      | No data available |
| <b>Persistence and degradability</b> | No data available |
| <b>Bioaccumulative potential</b>     | No data available |
| <b>Mobility in soil</b>              | No data available |
| <b>Other adverse effects</b>         | 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**

|                            | DOT<br>Classification | IATA          |
|----------------------------|-----------------------|---------------|
| UN number                  | Not regulated         | Not regulated |
| UN proper                  | -                     | -             |
| Transport hazard class(es) | -                     | -             |
| Packing group              | -                     | -             |
| Environmental hazards      | No                    | No            |
| Additional information     | -                     | -             |

Special precautions for user: Transport within users 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**

## U.S. Federal regulations

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)  
Clean Air Act Section 602 Class I Substances  
Clean Air Act Section 602 Class II Substances  
DEA List I Chemicals (Precursor Chemicals)  
DEA List II Chemicals (Essential Chemicals)

TSCA: All components are listed or exempted.  
Clean Water Act (CWA) 311: All components are listed or exempted.  
Not listed  
Not listed  
Not listed  
Not listed  
Not listed

SARA 302/304Composition/information on ingredients

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

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## 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

State regulations

## New York

Sodium Tetraborate 1303-96-4

## Pennsylvania

Sodium Tetraborate 1303-96-4

## Minnesota

Sodium Tetraborate 1303-96-4

## Rhode Island

Sodium Tetraborate 1303-96-4

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): Not determined.

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

Chemical Weapons Convention List Schedule II Chemicals Not listed

Chemical Weapons Convention List Schedule III Chemicals Not listed

## SECTION 16: Other information

**Indication of changes** : 10-Jun-20

**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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