



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

<b>GHS Product Identifier</b>	Goat Fibronectin
<b>Other means of identification</b>	N/A
<b>Product type</b>	Powder
<b>Product code</b>	1430-01
<b>Chemical formula</b>	Not applicable
<b>CAS No</b>	Not applicable
<b>SDS No.</b>	2230957
<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. 160 Oxmoor Boulevard Birmingham, Alabama 35209 USA Tel: (205) 945-1774 Fax: (205) 945-8768 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. 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

**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><u>CAS Number/other identifiers</u></b>	
<b>CAS Number</b>	Not applicable

<b>Ingredient Name</b>	<b>Product Identifier</b>	<b>Percentage</b>
Ammonium hydrogen carbonate	(CAS No.) 1066-33-7 / [EINECS(EC#)] 213-911-5	≤ 7.9%

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

Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

#### First-aid measures after eye contact

Flush eyes with water as a precaution.

#### First-aid measures after inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### First-aid measures after skin contact

Wash off with soap and plenty of water. Consult a physician.

#### First-aid measures after ingestion

Wash off with soap and plenty of water. Consult a physician.

### 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

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:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection 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

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

### Methods and material for containment and cleaning up

**Small spill:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Large spill:** As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 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:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**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

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**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 conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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. Contains material of human origin.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance****Physical state**

: Powder

**Color**

: White

**Odor**

: Not available

**Odor threshold**

: Not available

**pH**

: Not available

**Melting point**

: Not available

**Boiling point**

: Not available

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Flash Point	: Not available
Burning time	: Not available
Burning rate	: Not available
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 data available.
Chemical Stability	The product is stable under recommended storage conditions.
Possibility Of Hazardous Reactions	No data available
Conditions To Avoid	Heat
Incompatible Materials	Oxidizing agents, Strong acids, Nitrites, Nitrates
Hazardous Decomposition Products	Other decomposition products - No data available In the event of fire: see section 5

## SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - 1,576 mg/kg Inhalation: No data available Dermal: No data available No data available
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.  
**Fertility effects:** No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Not available.

**Additional Information**

RTECS: BO8600000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

<b>Toxicity</b>	Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 16.8 - 19.6 mg/l - 96 h
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available

**Other adverse effects**

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

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

**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 Classification	IATA
UN number	3077	Not regulated
UN proper	Ammonium hydrogencarbonate	-
Transport hazard class(es)	9	-
Packing group	III	-
Environmental hazards	No	No
Additional information	(RQ): 5000 lbs	-

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**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.

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 HazardsAcute Health HazardState regulationsNew Jersey

Ammonium hydrogencarbonate 1066-33-7

New York

Ammonium hydrogencarbonate 1066-33-7

Massachusetts

Ammonium hydrogencarbonate 1066-33-7

Pennsylvania

Ammonium hydrogencarbonate 1066-33-7

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California

Ammonium hydrogencarbonate

1066-33-7

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

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                    : 01-Jun-16

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**                    : 1 Caution-May be irritating  
**NFPA fire hazard**           : 0 - Not combustible  
**NFPA reactivity**           : 0 - Not reactive when mixed with water

**HMIS III Rating**

**Health**                        : 1- Slight Hazard  
**Flammability**           : 0 - Minimal Hazard  
**Physical**                   : 0 - Minimal Hazard



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