# **SouthernBiotech**





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

GHS Product Identifier Swine Anti-Goat IgG(H+L), Human/Rat/Mouse SP ads-AP

Other means of identification N/A
Product type Liquid
Product code 6300-04

Chemical formulaNot applicableCAS NoNot applicableSDS No.2232262

Relevant Identified uses of the substance or mixture and uses

advised against Not applicable

**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

**Distributor and Emergency Phone** Refer to website for distributor and emergency phone numbers.

**No.** Tel: (205) 945-1774

## **SECTION 2: Hazards identification**

## Classification of the substance or mixture GHS-US classification

Acute Toxicity Oral - Category 5

## Label elements GHS-US labeling

Hazard pictograms (GHS-US) None

Signal word (GHS-US)	Warning		
Hazard statements (GHS-US)	H303 – May be harmful if swallowed		
Precautionary statements (GHS-US)	P262 – Do not get in eyes, on skin, or on clothing.		
Prevention	P264 – Wash hands, forearms, and exposed areas thoroughly after handling. P270 – Do not eat, drink, or smoke when using this product.		
Response	P312 – Call a POISON CENTER or doctor/physician if you feel unwell.		
Storage	Not applicable		
Disposal	P501 – Dispose of contents and container in accordance with all local, regional, national, and international regulations.		
Other hazards	Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or plumbing copper.  Sodium azide is rapidly absorbed through skin.		

Unknown acute toxicity (GHS US)

No data available

Full text of H-phrases: see section 16

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## **SECTION 3: Composition/information on ingredients**

Substance/Mixture Mixture Other Means of Identification Not available

**CAS Number/other identifiers** 

**CAS Number** Not applicable

Ingredient Name	Product Identifier	Percentage
Glycerol	(CAS No.) 56-81-5 / [EINECS(EC#)] 200-289-5	50%
Sodium Azide	(CAS No.) 26628-22-8 / [EINECS(EC#)] 247-852-1	0.1

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. Get medical attention if irritation occurs.

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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 skin contact

Flush contaminated skin with plenty of water. 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or

physician.

#### Most important symptoms and effects, acute and delayed

#### Potential acute health effects

Eve 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

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Ingestion May be harmful if swallowed.

Over-exposure signs/symptoms

Eye contact
Inhalation
No specific data
Skin contact
No specific data
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 an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known

Special hazards arising from the substance or mixture In a fire or if heated, a pressure increase will occur and the

container may burst.

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).

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#### Methods and material for containment and cleaning up

**Small spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, 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.

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

#### **Control parameters**

Sodium Azide	e (26628-22-8)	
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	Absorbed through skin. Notes NaN₃
		CEIL: $0.3 \text{ mg/m}^3$ , $(NaN_3)$
USA NIOSH	NIOSH REL (TWA) (ppm)	Absorbed through skin. Notes As HN₃
		CEIL: 0.1 ppm, (as HN <sub>3</sub> )
USA OSHA	OSHA PEL (TWA) (mg/m³)	Absorbed through skin. Notes as NaN₃
		CEIL: $0.3 \text{ mg/m}^3$ , (as $NaN_3$ )
USA OSHA	OSHA PEL (TWA) (ppm)	Absorbed through skin. Notes as HN <sub>3</sub>
		CEIL: 0.1 ppm, (as HN <sub>3</sub> )
Glycerol (56-	81-5)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	Respirable Fraction
		5 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m³)	Total Dust
		15 mg/m <sup>3</sup>

**Exposure controls** 

Appropriate engineering controls Good general ventilation should be sufficient to control worker exposure to

airborne contaminants.

Environmental exposure controls

Do not let product enter drains. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of

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environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

Personal protective equipment Protective goggles, gloves

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** 

Hand protection

**Physical state** Liquid Color Colorless Odor Not available **Odor threshold** Not available рΗ 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

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Lower and upper explosive (flammable)

limits

Not availableNot available

Not available

Relative density Solubility

Vapor pressure

Vapor density

Not availableSoluble in the following materials:

cold water and hot water.

Partition coefficient n-octanol/water: Not availableAuto-ignition temperature: Not availableDecomposition temperature: Not availableSADT: Not availableViscosity: 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, acids, metals, water. (Note: Over a period of time, sodium azide may react

with copper, lead, brass, or solder in plumbing systems to form an accumulation of HIGHLY

EXPLOSIVE compounds of lead azide and copper azide.)

Hazardous Decomposition Products No specific data.

## **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity

Product/ingredient	Result	Species	Dose	Exposure
Sodium Azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Glycerol	LD50 Oral	Rat	12,600 mg/kg	-

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this product have not been

thoroughly investigated.

Skin corrosion/irritation:No data availableSerious eye damage/irritation:No data availableRespiratory or skin sensitization:No data availableGerm cell mutagenicity:No data available

#### Carcinogenicity:

Product/ingredient name	Result	Species	Dose	Exposure
Sodium Azide	Equivocal - Oral - TD	Rat	5460 mg/kg	78 weeks Continuous
	Equivocal - Oral - TDLo	Rat	2730 mg/kg	78 weeks Continuous

**Reproductive toxicity**: Not available **Teratogenicity:** Not available

Specific target organ toxicity (single exposure): Not available Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

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 $\textbf{Email:} \ \underline{info@southernbiotech.com} \bullet \textbf{Website:} \ \underline{www.southernbiotech.com}$ 

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation, skin or eye contact **Potential acute health effects** 

Eye contact: No known significant effects or critical hazardsInhalation: No known significant effects or critical hazardsSkin 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
Potentialchronichealtheffects: Not available

General:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity:
No known significant effects or critical hazards.

Teratogenicity:
No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicityestimates** 

Not available.

Additional Information RTECS: VY8050000

RTECS: MA8050000

## **SECTION 12: Ecological information**

#### **Toxicity**

Product / ingredient name	Result	Species	Exposure
Sodium Azide	Acute EC50 0.348 mg/L Fresh water Acute EC50 4.2 to 6.2 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata Daphnia - Daphnia pulex - Larvae	96 hours 48 hours
	Acute LC50 9000 ug/L Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/L Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 ug/L Marine water	Algae - Macrocystis pyrifera	96 hours

Persistence and degradability Not available

Bioaccumulative potential Not available

Mobility in soil

Soil/water partition coefficient (KOC) Not available

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Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

## **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	IATA
	Classification	
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 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**

U.S. Federal regulations TSCA: 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/informationoningredients

	_,		SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Sodium Azide	0 - 0.1	Yes	500	-	1000	-

SARA 304 RQ 1000000 lbs / 454000 kg

SARA 311/312

Classification Immediate (acute) health hazard

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#### Composition/informationoningredients

Name	%	Fire hazard	Sudden release	Reactive	Immediate (acute)	Delayed (chronic)
			of pressure		health hazard	health hazard
Sodium Azide	0 - 0.1	No	No	Yes	Yes	No

State regulations

**New Jersey** 

Sodium Azide 26628-22-8 Glycerol 56-81-5

New York

Sodium Azide 26628-22-8

Massachusetts

Sodium Azide 26628-22-8

Pennsylvania

Sodium Azide 26628-22-8 Glycerol 56-81-5

California

Sodium Azide 26628-22-8

Louisiana

Sodium Azide 26628-22-8

Michigan

Sodium Azide 26628-22-8

Minnesota

Sodium Azide 26628-22-8 Glycerol 56-81-5

Rhode Island

Sodium Azide 26628-22-8

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
Chemical Weapons Convention List Schedule II Chemicals
Chemical Weapons Convention List Schedule III Chemicals
Not listed

## **SECTION 16: Other information**

Indication of changes : 30Apr15

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:**

H303	May be harmful if swallowed	
P262	Do not get in eyes, on skin, or on clothing	
P264	P264 Wash hands, forearms, and exposed areas thoroughly after handling.	

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P270	Do not eat, drink, or smoke when using this product.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P501	Dispose of contents and container in accordance with all local, regional, national, and international regulations.

NFPA health hazard : 1 - 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 - Irritation or minor reversible injury possible

Flammability : 0 - Minimal Hazard Physical : 0 - Minimal Hazard



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