SouthernBiotech





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

GHS Product Identifier	Goat Anti-Chicken IgY(H+L)-AP	
Other means of identification	N/A	
Product type	Liquid	
Product code	6100-04	
Chemical formula	Not applicable	
CAS No	Not applicable	
SDS No.	2232252	
Relevant Identified uses of the		
substance or mixture and uses		
advised against	Not applicable	
Supplier's details	Southern Biotechnology Associates, Inc.	
Supplier s details	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)

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	

Unknown acute toxicity (GHS US)

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

Eye contact Inhalation Skin contact No known significant effects or critical hazards No known significant effects or critical hazards No known significant effects or critical hazards

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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 Unsuitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire. 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 (26628-22-8)			
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	Absorbed through skin. Notes NaN_3 CEIL: 0.3 mg/m ³ , (NaN ₃)	
USA NIOSH	NIOSH REL (TWA) (ppm)	Absorbed through skin. Notes As HN_3 CEIL: 0.1 ppm, (as HN_3)	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	Absorbed through skin. Notes as NaN_3 CEIL: 0.3 mg/m ³ , (as NaN_3)	
USA OSHA	OSHA PEL (TWA) (ppm)	Absorbed through skin. Notes as HN ₃ CEIL: 0.1 ppm, (as HN ₃)	
Glycerol (56-	Glycerol (56-81-5)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	Respirable Fraction 5 mg/m ³	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	Total Dust 15 mg/m ³	

Exposure controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Appropriate engineering 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
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	:	Colorless
Odor	:	Not available
Odor threshold	:	Not available
рН	:	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 (flamma limits	ole) :	Not available		
Vapor pressure	:	Not available		
Vapor density	:	Not available		
Relative density	:	Not available		
Solubility	:	Soluble in the follow cold water and hot v		
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 to ingredients.	est data related to rea	ctivity available for this product o	or its
Chemical Stability	The product	is stable.		
Possibility Of Hazardous Reactions	•		e and use, hazardous reactions w	ill not occur.
Conditions To Avoid	No specific d	-		
Incompatible Materials	-		er. (Note: Over a period of time, s in plumbing systems to form an ac	

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	-

EXPLOSIVE compounds of lead azide and copper azide.)

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 availableTeratogenicity:Not availableSpecific target organ toxicity (single exposure):Not availableSpecific target organ toxicity (repeated exposure):Not availableAspiration hazard:Not available

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	the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation, skin or eye contact
Potential acut	
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.
	ted 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
-	mediate effects and also chronic effects from short and long term exposure
Short term expo	
Potential imm	ediate effects: Not available
Potential delay	ed effects: Not available
Long term expo	<u>sure</u>
Potential imm	ediate effects: Not available
Potential delay	ed effects: Not available
Potentialchro	nichealtheffects: Not available
General:	No known significant effects or critical hazards.
Carcinogenicit	y: No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmenta	l effects: No known significant effects or critical hazards.
Fertility effect	s: No known significant effects or critical hazards.
Numerical mea	asures of toxicity
Acute toxicitye	estimates
Not available.	
Additional Infor	mation
RTECS: VY80500	00
RTECS: MA80500	000

SECTION 12: Ecological information

Toxicity

Product / ingredient name	Result	Species	Exposure
Sodium Azide	Acute EC50 0.348 mg/L Fresh water	Algae – Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/L Fresh water	Daphnia - Daphnia pulex - Larvae	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 byproducts 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	ΙΑΤΑ
	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 U.S. Federal regulations TSCA: All components are listed or exempted. Clean Water Act (CWA) 311: disodium hydrogenorthophosphate Clean Air Act Section 602 Class I Substances Clean Air Act Section 602 Class II Substances Clean Air Act Section 602 Class II Substances DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals) Not listed

SARA 302/304

Composition/informationoningredients

Name	~ (SARA 302 TPQ		SARA 304 RQ	
	%	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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Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
			-			
Sodium Azide	0 - 0.1	No	No	Yes	Yes	No
State regulatio	<u>ns</u>					
New Jersey						
Sodium	Azide		26628-22-8			
Glycero			56-81-5			
New York						
Sodium	Azide		26628-22-8			
Massachusetts	;					
Sodium	Azide		26628-22-8			
Pennsylvania						
Sodium			26628-22-8			
Glycero			56-81-5			
California						
Sodium	Azide		26628-22-8			
Louisiana						
	Sodium Azide		26628-22-8			
Michigan						
Sodium	Azide		26628-22-8			
Minnesota						
Sodium			26628-22-8			
Glycero			56-81-5			
Rhode Island						
Sodium	Azide		26628-22-8			
Glycero			56-81-5			
Canada inventory All com		omponents are listed or exempted.				

Composition/informationoningredients

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 co	omponents are listed or exempted.			
	New Zealand Inventory of Chemicals (N	ZIOC): All components are listed or exempted.			
	Philippines inventory (PICCS): All compo	onents 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	:	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	Wash hands, forearms, and exposed areas thoroughly after handling.	
		Rev. 30-Apr-

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768 Email: info@southernbiotech.com • Website: www.southernbiotech.com

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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					

While SouthernBiotech (d.b.a. Southern Biotechnology Associates, Inc.) believes the information contained herein is valid and accurate, SouthernBiotech makes no warranty or representation as to its validity, accuracy, or currency. SouthernBiotech shall not be liable or otherwise responsible in any way for use of either this information or materials to which it applies. Disposal of Hazardous materials may be subject to local laws or regulations.

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