# SouthernBiotech



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

GHS Product Identifier	Normal Rabbit Serum
Other means of identification	N/A
Product type	Liquid
Product code	0040-01
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2230975
Relevant Identified uses of the substance or mixture and uses advised against	Notapplicable
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 No.	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**

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
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		
Ingestion		

No known significant effects or critical hazards No known significant effects or critical hazards No known significant effects or critical hazards May be harmful if swallowed.

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Over-exposure	signs/	symptoms

Eye contact	No specific data
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

SECTION 5. Firefighting measures

#### 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 Protection of first-aiders	No specific treatment. 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. Fillengilting 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.
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 <sup>3</sup> )	Absorbed through skin. Notes NaN <sub>3</sub> CEIL: 0.3 mg/m <sup>3</sup> , (NaN <sub>3</sub> )
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 <sup>3</sup> )	Absorbed through skin. Notes as $NaN_3$ CEIL: 0.3 mg/m <sup>3</sup> , (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> )

#### **Exposure controls**

Appropriate engineering controls Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of 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

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Hand protection	Chemical-resistant, impervious glo be worn at all times when handlin this is necessary. Considering the check during use that the gloves a should be noted that the time to l different for different glove manu several substances, the protection	g chemical products if a ris parameters specified by th re still retaining their prote preakthrough for any glove facturers. In the case of m	k assessment indicates le glove manufacturer, ective properties. It material may be ixtures, consisting of
Body protection	Personal protective equipment for task being performed and the risk specialist before handling this pro	s involved and should be ap	
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 ar risk assessment indicates this is ne mists, gases or dusts. If contact is worn, unless the assessment indic glasses with side-shields.	ecessary to avoid exposure possible, the following pro	to liquid splashes, otection should be
Respiratory protection	Where risk assessment shows air- face respirator with multi- purpose respirator cartridges as a backup t sole means of protection, use a fu and components tested and appro- such as NIOSH (US) or CEN (EU).	e combination (US) or type o engineering controls. If tl Il-face supplied air respirate	ABEK (EN 14387) ne respirator is the or. Use respirators
Conditions to avoid	No specific data		
Incompatible materials	No specific data		
Hazardous decomposition products	Under normal conditions of storag products should not be produced		
Other information	When using, do not eat, drink, or	smoke. May contain mater	ial of animal origin.

## **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

:	Liquid
:	Light to dark amber
:	Not available
:	Not available
:	≈7.4
:	Not available
:	Not available
:	Not available
:	Not applicable
:	Not applicable
:	Not available
:	Not available
:	Not available
•	Not available
:	Not available
:	Not available

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Solubility	:	Soluble in the following mat cold water and hot water.	erials:	
Partition coefficient n-octanol/wate	:	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 te ingredients.	est data related to reactivity a	vailable for this product	or its

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	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.)

## **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute	toxicity

Conclusion/Summary:

Product/ingredient	Result	Species	Dose	Exposure
Sodium Azide	LD50 Oral	Mice	27 mg/kg	-
	LD50 Oral	Rat	45 mg/kg	-

Hazardous Decomposition Products Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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:

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 availableInformation on the likely routes of exposure:Routes of entry anticipated:Potential acute health effects

Eye contact: No known significant effects or critical hazards

Inhalation: No known significant effects or critical hazards

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Skin contact:	No known significant effects or critical hazards			
Ingestion:	Harmful if swallowed.			
Symptomsrelat	ted tothephysical,chemi	caland toxicological characteristics		
Eye contact:	No specific data			
Inhalation:	No specific data			
Skin contact:	No specific data			
Ingestion:	No specific data			
Delayed and im	mediate effects and also	chronic effects from short and long term exposure		
Short term expo	<u>osure</u>			
Potential imm	ediate effects: Not ava	ailable		
Potential delay	red effects: Not ava	ailable		
Long term expo	Long term exposure			
Potential imm	ediate effects: Not ava	hilable		
Potential delay	red effects: Not ava	ailable		
Potential chroi	nichealtheffects: Not ava	ailable		
General:	No known sig	nificant effects or critical hazards.		
Carcinogenicit	y: No known sig	nificant effects or critical hazards.		
Mutagenicity:	No known sig	nificant effects or critical hazards.		
Teratogenicity	: No known sig	nificant effects or critical hazards.		
Developmenta	I effects: No known sig	nificant effects or critical hazards.		
Fertility effect	s: No known sig	nificant effects or critical hazards.		
Numerical mea	asures of toxicity			
Acute toxicitye	estimates			
Not available.				
Additional Infor	mation			
RTECS: VY80500	000			

## **SECTION 12: Ecological information**

Toxicity

Product /	Result	Species	Exposure
ingredient name			
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

Other adverse effectsAn environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br/>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.

Not listed

## **SECTION 15: Regulatory information**

#### **U.S.** Federal regulations

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

#### Composition/informationoningredients

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

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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State regulations	
New Jersey	
Sodium Azide	26628-22-8
Sodium Phosphate	7558-79-4
New York	
Sodium Azide	26628-22-8
Sodium Phosphate	7558-79-4
Massachusetts	
Sodium Azide	26628-22-8
Sodium Phosphate	7558-79-4
Pennsylvania	
Sodium Azide	26628-22-8
Sodium Phosphate	7558-79-4
California	
Sodium Azide	26628-22-8
Sodium Phosphate	7558-79-4
Louisiana	
Sodium Azide	26628-22-8
Minnesota	
Sodium Azide	26628-22-8
Rhode Island	
Sodium Azide	26628-22-8
Canada inventory	All components are listed or exempted.
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#### **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 (	ons Convention List Schedule I Not listed						
Chemical Weapons O	ons Convention List Schedule II Chemicals Not listed						
Chemical Weapons Convention List Schedule III Chemicals Not listed							

## **SECTION 16: Other information**

Indication of changes Other information	:	30Apr15 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.
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.

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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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