# SouthernBiotech



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product Identifier	ApoScreen <sup>®</sup> Annexin V-FITC
Other means of identification	N/A
Product type	Liquid
Product code	10039-02
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2231674
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
Distributor and Emergency Phone No.	Website: www.southernbiotech.com 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 classified

Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	None required		
Signal word (GHS-US)	None required		
Hazard statements (GHS-US)	None required		
Precautionary statements (GHS-US) None required			
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.		
Note	According to OSHA Hazard Communications Standard (CFR 1910.1200), if a mixture contains less than 1% hazardous chemical or less than 0.1% of a carcinogen, the mixture is not considered hazardous. However, precautions for handling potentially dangerous chemicals should be used when handling these products.		
Unknown acute toxicity (GHS US)	No data available		

Full text of H-phrases: see section 16

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture

Mixture

Other	Means	of	Ide	n	tific	atio	n
		-					

CAS Number/other identifiers CAS Number

Not applicable

Not available

Ingredient Name	Product Identifier	Percentage	GHS Classification
Sodium Azide	(CAS No.) 26628-22-8	< 0.1	H300
	[EINECS(EC#)] 247-852-1		H310
			H400
			H410

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. See Section 16 for full text of GHS classifications.

## **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, both acute and delayed	See Sections 2 and 11
Indication of immediate medical attention and special treatment needed, if necessary	Contains low levels of sodium azide. Medical conditions could be aggravated by exposure. None known or reported. Treat symptomatically.

# **SECTION 5: FIRE-FIGHTING MEASURES**

Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from the substance or mixture

Hazardous thermal decomposition products Special protective actions for firefighters

Special protective equipment for firefighters

Use an extinguishing agent suitable for the surrounding fire. None known

In a fire or if heated, a pressure increase will occur and the container may burst.

No specific data

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.

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:** 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. Rev. 18-Aug-21

ApoScreen® Annexin V-FITC SDS No. 2231674 Page
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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). 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. Avoid strong oxidizers. Recommended storage temperature: 2 - 8°C

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Sodium Azide (	:6628-22-8)			
USA NIOSH	NIOSH IDLH	Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub>		
		Ceiling: 0.1 ppm HN <sub>3</sub>		
USA OSHA	OSHA PEL (TWA)	Absorbed through skin		
		(Vacated) Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub>		
		(Vacated) Ceiling: 0.1 ppm HN <sub>3</sub>		
ACGIH TLV	ACGIH TLV	Ceiling: 0.29 mg/ m <sup>3</sup> NaN <sub>3</sub>		
		Ceiling: 0.11 ppm Hydrazoic acid vapor		

#### **Exposure controls**

Appropriate engineering controls	General ventilation systems should be sufficient to control worker exposure to airborne contaminants; showers and eyewash stations			
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			
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	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	Tightly fitting safety goggles 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			
	Rev. 18-Aug-21			

ApoScreen® Annexin V-FITC		SDS No. 2231674	Page 5 of 8
	full-face respirator with multi- purpos 14387) respirator cartridges as a back respirator is the sole means of protec Use respirators and components test government standards such as NIOSH	kup to engineering contr ction, use a full-face supp ed and approved under a	ols. If the blied air respirator.
Conditions to avoid	No specific data		
Incompatible materials	No specific data		
Hazardous decomposition products	Under normal conditions of storage a products should not be produced.	and use, hazardous decor	mposition
Other information	When using, do not eat, drink, or smo	oke. May contain materi	al of animal origin.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

mormation on basic physical and chemical properties					
Physical state	:	Liquid			
Color	:	Yellow			
Odor	:	Not available			
Odor threshold	:	Not available			
рН	:	≈7.4			
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 (flammabl	e) 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 specific test data related to reactivity available for this product or its ingredients.
Chemical Stability Possibility Of Hazardous Reactions Conditions To Avoid	The product is stable under recommended storage conditions. Under normal conditions of storage and use, hazardous reactions will not occur. No specific data.
Incompatible Materials	Acids, metals. (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	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose
Sodium Azide	LD50 Oral	Mouse	27 mg/kg
	LD50 Oral	Rat	27 mg/kg
	LD50 Dermal	Rabbit	20 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 available		
Serious eye damage/irritation:	No data available		
Respiratory or skin sensitization:	No data available		
Germ cell mutagenicity:	No data available		
Carcinogenicity	No data available. This mixture is not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.		
Reproductive toxicity:	No data available		
Developmental toxicity:	No data available		
Specific target organ toxicity (single	exposure): No data available		
Specific target organ toxicity (repea	ted exposure): No data available		
Aspiration hazard:	No data available		
Other Information:	No data available		

## **SECTION 12: ECOLOGICAL INFORMATION**

#### Ecotoxicity

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		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			
Bioaccumulative potential I   Mobility in soil I   Soil/water partition coefficient (KOC) I   Other adverse effects I   Note I		No data availa	No data available				
		No data availa	No data available				
		No data availa	No data available				
		No data availa	No data available No data available				
		No data availa					
		• •	Although present at low concentrations, disposal should consider that sodium azide is present. Releases to the environment should be avoided. Very toxic to				

aquatic life

## **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	Not regulated	Not regulated
Transport hazard class(es)	Not regulated	Not regulated
Packing group	Not regulated	Not regulated

**Environmental Hazards:** Based on the data available, the mixture is not regulated as an environmental hazard or a marine pollutant

Special precautions for user: 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**

US Federal and State Regulations

Not listed
Acute Health Hazard
Not listed
Not listed
Not listed
Not listed

SARA 302/304

Composition/information on ingredients

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

#### SARA 304 RQ 1000000 lbs / 454000 kg

State regulations
Now Jorsov

	New Jersey	
	Sodium Azide	26628-22-8
	Sodium Phosphate	7558-79-4
I	Massachusetts	
	Sodium Azide	26628-22-8
	Sodium Phosphate	7558-79-4
I	Pennsylvania	
	Sodium Azide	26628-22-8
	Sodium Phosphate	7558-79-4
I	Minnesota	
	Sodium Azide	26628-22-8
I	Rhode Island	
	Sodium Azide	26628-22-8
(	Canada inventory	All components are listed or exempted.

#### International regulations

International listsAustralia 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.

Rev. 18-Aug-21

ApoScreen® Annexin V-FITC	SDS No. 2231674	Page 8 of 8

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.

## **SECTION 16: OTHER INFORMATION**

Indication of changes		17-Aug-21 This desument has been prepared in accordance with the SDS requirements of the OSUA	
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**:

H300	atal if swallowed	
H310	Fatal in contact with skin	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

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 Flammability		1 - Slight Hazard - Irritation or minor reversible injury possible 0 - Minimal Hazard
Physical	:	0 - Minimal Hazard



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