SouthernBiotech



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

	of the substance of mixture and of the supplier
GHS Product Identifier	Rabbit F(ab') ₂ Anti-Human IgG(H+L)-HRP
Other means of identification	N/A
Product type	Liquid
Product code	6000-05
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2232301
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

of the substance -----

Classification of the substance or mixtu	re
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	none
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 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%

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

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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. Consult a physician.
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. Consult a physician.
First-aid measures after skin contact	Flush contaminated skin with plenty of water and soap. 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. Get medical attention. If necessary, call a poison center.

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.	
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 medica	l 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. None known Unsuitable extinguishing media Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx) Hazardous thermal decomposition products No specific data Rev. 30-Apr-15

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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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
Special protective equipment for fire-fighters	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. 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.

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Recommended storage temperature: 2 - 8°C

SECTION 8: Exposure controls/personal protection

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation See Appendix D - Substances with No Established RELs		
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Exposure controls

Appropriate engineering controls

Environmental exposure controls

Personal protective equipment

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. Do no let product enter drains.

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. Safety eyewear complying with an approved standard should be used when a Eye protection 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 fullface respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the Rev. 30-Apr-15

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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). No specific data No specific data Under normal conditions of storage and use, hazardous decomposition products should not be produced. When using, do not eat, drink, or smoke. May contain material of animal origin.

Other information

Conditions to avoid

Incompatible materials

Hazardous decomposition products

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance		
Physical state	:	Liquid
Color	:	Light amber to dark amber
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
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 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
Hazardous Decomposition Products	No specific data.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available

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Conclusion/Sur	mary:	To the best of our knowledge, the toxicological properties of this product have not been	
Conclusion/Summary:		thoroughly investigated.	
Skin corrosion/irritation:		No data available	
Serious eye dama	-	No data available	
Respiratory or skin sensitization: Germ cell mutagenicity:		No data available No data available	
Germicen mutage	enicity.		
Carcinogenicity :			
IARC:	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 anticipated carcir	this product present at levels greater than or equal to 0.1% is identified as a known or ogen 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 toxi Teratogenicity:	icity:	No data available No data available	
	gan toxicity (single	exposure): No data available	
Specific target org	gan toxicity (repeat	ed exposure): No data available	
Aspiration hazard	l: 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 significa	int effects or critical hazards	
Inhalation:	No known significa	int effects or critical hazards.	
Skin contact: No known significant effects or critical hazards.			
Ingestion:	Harmful if swallow		
		, chemical and toxicological characteristics	
Eye contact:	No specific data		
Inhalation:	No specific data		
	Skin contact: No specific data		
Ingestion:	No specific data	nd also shushin offects from short and long term evenesure	
Delayed and Imr	nediate effects a	nd also chronic effects from short and long term exposure	
Short term expo	sure		
Potential imme		Not available	
Potential delaye	ed effects:	Not available	
Long term expos	ure		
Potential imme	diate effects:	Not available	
Potential delaye	ed effects:	Not available	
	ichealth effects:	Not available	
General:	No kn	own significant effects or critical hazards.	
Carcinogenicity	No kno	own significant effects or critical hazards.	
Mutagenicity:		own significant effects or critical hazards.	
Teratogenicity:		own significant effects or critical hazards.	
Developmental	effects: No kno	own significant effects or critical hazards.	
		Rev. 30	
Corporato	Officer 160 Ovmoor	Rived a Birmingham AL 25200 a USA Mailing Address: P.O. Box 26221 a Birmingham AL 25260 a USA	

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Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicityestimates

Not available.

SECTION 12: Ecological information		
Toxicity	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Other adverse effects	No data available	

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	TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): 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

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	(5				
DEA List II Chemicals	(Essential Cher	nicals)	Not listed		
SARA 302/304 Composition/informationoningredients 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 <u>SARA 311/312</u>					
Classification	Chronic health h	nazard			
<u>State regulations</u> New Jersey					
Sodium Phos	ohate	7558-79-4			
Glycerol		56-81-5			
New York					
Sodium Phos Massachusetts	ohate	7558-79-4			
Sodium Phosphate		7558-79-4			
Pennsylvania					
Sodium Phosphate		7558-79-4			
Glycerol		56-81-5			
California					
Sodium Phos	phate	7558-79-4			
Minnesota					
Glycerol		56-81-5			
Rhode Island					
Glycerol		56-81-5			
Canada inventory	All comp	onents are listed or exemp	ted.		
International regulations					
International lists	Australia inver	ntory (AICS): All component	s are listed or	exempted.	
	China inventor	y (IECSC): All components a	are listed or exe	empted.	
	Japan inventor	y: All components are listed	d or exempted		
	Korea inventor	y: All components are liste	d 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 ListSchedule INot listedChemical Weapons Convention ListSchedule II ChemicalsNot listedChemical Weapons Convention ListSchedule III ChemicalsNot listed

SECTION 16: Other information

- Indication of changes Other information
- 30-Apr-15
 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:

Health

Physical

Flammability

NFPA health	:	0 - No unusual hazard
NFPA fire hazard	:	0 - Not combustible
NFPA reactivity	:	0 - Not reactive when mixed with water
HMIS III Rating		

: 0- Minimal Hazard

: 0 - Minimal Hazard

: 0 - Minimal Hazard



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