SouthernBiotech



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

GHS Product Identifier	Mouse Anti-GSK-3β-HRP
Other means of identification	3A11
Product type	Liquid
Product code	10920-05
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2232330
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

of the substance -----

re
none
No data available

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

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.	
<u>Over-exposure signs/symptoms</u>		
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	

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.

 Unsuitable extinguishing media
 None known

 Special hazards arising from the substance or mixture Hazardous thermal decomposition products
 Carbon oxides, nitrogen oxides (NOx)

 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 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).

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 respirate	or Use respirators
	and components tested and approv		•

	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	:	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)	:	Not available
limits		
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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To the best of our knowledge, the toxicological properties of this product have not been

Conclusion/Summary:

		thoroughly investigated.		
Skin corrosion/irr	ritation:	No data available		
Serious eye damage/irritation:		No data available		
Respiratory or skin sensitization:		No data available		
Germ cell mutage	enicity:	No data available		
Carcinogenicity:				
IARC:	No component of	this product present at levels greater than or equal to 0.1% is identified as probable,		
	possible or confirm	ned 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 carcin	logen by ACGIH.		
NTP:	No component of	this product present at levels greater than or equal to 0.1% is identified as a known or		
	anticipated carcin	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 carcin			
Reproductive tox	icity:	No data available		
Teratogenicity:	zan tovicity (cingle /	No data available exposure): No data available		
		ed exposure): No data available		
	I: No data available			
-		of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.		
Potential acute	-			
Eye contact:		nt effects or critical hazards		
Inhalation: No known significant effects or critical hazards.				
Skin contact: No known significant effects or critical hazards.				
Ingestion:	Harmful if swallow	ed.		
Symptomsrelate	ed tothephysical,	chemical and 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 a	nd also chronic effects from short and long term exposure		
Short term expo				
Potential imme		Not available		
Potential delaye		Not available		
Long term expos				
Potential imme		Not available		
Potential delaye		Not available		
	ichealth effects:			
General:		own significant effects or critical hazards.		
Carcinogenicity		own significant effects or critical hazards.		
Mutagenicity:				
Teratogenicity:		own significant effects or critical hazards.		
Developmental	effects: No kno	own significant effects or critical hazards.		

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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 Persistence and degradability	No data available 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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DEA List II Chemicals	; (Essential Ch	emicals)	Not listed		
<u>SARA 302/304</u> <u>Composition/inforr</u> SARA 302: No ch			e reporting requiren	nents of SARA Title III, Secti	on 302.
SARA 313 Component SARA 313: This materi	s al does not con		nents with known C	AS numbers that exceed the	
Classification	Chronic health	n hazard			
State regulations New Jersey					
Sodium Phos	phate	7558-79-4			
Glycerol New York		56-81-5			
Sodium Phos Massachusetts	phate	7558-79-4			
Sodium Phos Pennsylvania	phate	7558-79-4			
Sodium Phos	phate	7558-79-4			
Glycerol		56-81-5			
California					
Sodium Phos Minnesota	phate	7558-79-4			
Glycerol Rhode Island		56-81-5			
Glycerol		56-81-5			
Canada inventory	All cor	mponents are listed or ex	empted.		
International regula International lists	Australia inv China invent	entory (AICS): All compo ory (IECSC): All compone ory: All components are	nts are listed or exe	empted.	
	-	ory: All components are	-		

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 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.

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GHS Full Text Phrases:

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

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



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