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	Mouse Anti-Human TIMP-4-HRP
Other means of identification	SB30c
Product type	Liquid
Product code	12035-05
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2232335
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

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

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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	No known significant effects or critical hazards No known significant effects or critical hazards No known significant effects or critical hazards			
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.			

	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 mediaUse water spray, alcohol-resistant foam, dry chemical or
carbon dioxide.Unsuitable extinguishing mediaNone knownSpecial hazards arising from the substance or mixture
Hazardous thermal decomposition productsCarbon oxides, nitrogen oxides (NOx)Rev. 30-Apr-15

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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 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)	:	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:

Developmental effects:

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			
Construction					
Carcinogenicity: IARC:		this product present at levels greater than or equal to 0.1% is identified as probable,			
<i>ii</i> (ite:		ned human carcinogen by IARC.			
ACGIH:	-	this product present at levels greater than or equal to 0.1% is identified as a carcinogen			
Acom.	or potential carci				
NTD.	-				
NTP:	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 or potential carci	this product present at levels greater than or equal to 0.1% is identified as a carcinogen			
		iogen by OshA.			
Reproductive to	xicity:	No data available			
Teratogenicity		No data available			
Specific target o	rgan toxicity (single	exposure): No data available			
Specific target o	rgan toxicity (repeat	ed exposure): No data available			
Aspiration hazar	d: No data available				
Information o	n the likely routes	of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.			
Potential acut	e health effects				
Eye contact:	No known significant effects or critical hazards				
Inhalation:	•	nt effects or critical hazards.			
Skin contact:	-	nt effects or critical hazards.			
Ingestion:	-				
		, chemical and toxicological characteristics			
Eye contact: Inhalation:	No specific data				
Skin contact:	No specific data				
Ingestion:	No specific data No specific data				
-	•	nd also chronic effects from short and long term exposure			
Delayed and m	inieulate erietts a	nd also chi offic effects from short and long term exposure			
Short term exp	osure				
	ediate effects:	Not available			
Potential delay	ed effects:	Not available			
Long term expo					
Potential immediate effects: Not available					
Potential delay	ed effects:	Not available			
Potentialchro	Potentialchronichealtheffects: Not available				
General:	No kn	own significant effects or critical hazards.			
Carcinogenicit	t y: No kno	own significant effects or critical hazards.			
Mutagenicity:	No kn	own significant effects or critical hazards.			
Teratogenicity		own significant effects or critical hazards.			

No known 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	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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DEA List II Chemicals (Essent	tial Chemicals)	Not listed		
SARA 302/304				
Composition/information o SARA 302: No chemicals i	<u>ningredients</u> n this material are subject to t	he reporting require	ements of SARA Title III, Sec	ction 302.
SARA 313 Components				
SARA 313: This material does n			CAS numbers that exceed t	he threshold (De
Minimis) reporting levels estab	lished by SARA Title III, Section	n 313		
SARA 311/312				
Classification Chronic	health hazard			
State regulations				
New Jersey				
Sodium Phosphate	7558-79-4			
Glycerol	56-81-5			
New York				
Sodium Phosphate	7558-79-4			
Massachusetts				
Sodium Phosphate	7558-79-4			
Pennsylvania				
Sodium Phosphate	7558-79-4			
Glycerol	56-81-5			
California	7550 70 4			
Sodium Phosphate	7558-79-4			
Minnesota				
Glycerol Rhode Island	56-81-5			
	EC 04 E			
Glycerol	56-81-5			
Canada inventory	All components are listed or	ovomptod		

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 liste	ed or exempted.	
	Korea inventory: All components are liste	ed or exempted.	
Malaysia Inventory (EHS Register): All components are lis		omponents are listed or exempted.	
New Zealand Inventory of Chemicals (NZIoC): All components are listed or ex			
	Philippines inventory (PICCS): All components are listed or exempted.		
	Taiwan inventory (CSNN): All component	s 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		Not listed	

SECTION 16: Other information

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- 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:

Flammability

Physical

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

: 0 - Minimal Hazard

: 0 - Minimal Hazard



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