

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

GHS Product Identifier Human IgG-HRP

Other means of identification N/A
Product type Liquid
Product code 0150-05
Chemical formula Not applicable
CAS No Not applicable
SDS No. 2230772

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

Refer to website for distributor and emergency phone numbers.

No. Tel: (205) 945-1774

SECTION 2: Hazards identification

Classification of the substance or mixture

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/MixtureMixtureOther Means of IdentificationNot 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
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 contactNo specific dataInhalationNo specific dataSkin contactNo specific dataIngestionNo 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.

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 Carbon oxides, nitrogen oxides (NOx)

Hazardous thermal decomposition products No specific data

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Special protective actions for fire-fightersPromptly 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-fightersFire-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

Exposure controls

Appropriate engineering controls 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.

Environmental exposure controls Do no let product enter drains.

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 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.

Eye protection Safety eyewear 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 full-

face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the

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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).

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 pН 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 availableVapor density: Not availableRelative density: Not available

Solubility : Soluble in the following materials:

cold water and hot water.

Partition coefficient n-octanol/water: Not availableAuto-ignition temperature: Not availableDecomposition temperature: Not availableSADT: Not availableViscosity: Not available

Other information

No additional information available

SECTION 10: Stability and reactivity

ReactivityNo 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/Summary: To the best of our knowledge, the toxicological properties of this product have not been

thoroughly investigated.

Skin corrosion/irritation:

Serious eye damage/irritation:

Respiratory or skin sensitization:

Germ cell mutagenicity:

No data available
No data available
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 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 this product present at levels greater than or equal to 0.1% is identified as a known or

anticipated carcinogen 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 toxicity: No data available
Teratogenicity: No data available

Specific target organ toxicity (single exposure): No data available Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: 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 significant effects or critical hazardsInhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.

Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

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

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available

Long term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available
Potential chronicheal the effects: Not available

General:

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

Teratogenicity:

No known significant effects or critical hazards.

Developmental effects:

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 potentialNo 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 by-products 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	IATA
	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

hydrogen or tho phosphate

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)
Not listed

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DEA List II Chemicals (Essential Chemicals)

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

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

Sodium Phosphate 7558-79-4

Minnesota

Glycerol 56-81-5

Rhode Island

Glycerol 56-81-5

Canada inventory All components are listed or exempted.

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 Convention List Schedule I Not listed
Chemical Weapons Convention List Schedule II Chemicals
Chemical Weapons Convention List Schedule III Chemicals
Not listed

SECTION 16: Other information

Indication of changes : 30-Apr-15

Other information : 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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