

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 as amended Sheep Anti Mouse and Rat tPA IgG fraction, HRP labeled

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Product name: Sheep Anti Mouse and Rat tPA IgG fraction, HRP labeled Catalog number: SASMTPA-GF-HRP

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, for research use only Uses advised against: Not for clinical or diagnostic use

1.3. Details of the supplier of the safety data sheet

Molecular Innovations, Inc. 46430 Peary Court, Novi, MI 48377, USA Tel: 248-896-0142 Fax: 248-896-0148

1.4. Emergency telephone number

Emergency number: 248-896-0142

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin sensitization (Category 1), H317 Eye irritation (Category 2B), H320 Mutagenicity (Mutagenic Category 2), H341 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 1B), H360 Specific target organ toxicity - repeated exposure (Category 1), CNS, Kidney, Skin, H372 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. GHS label elements, including precautionary statements

Signal word: Danger

Hazard statement(s)

H317: May cause an allergic skin reaction
H320: Causes eye irritation
H341: Suspected of causing genetic defects
H351: Suspected of causing cancer
H360: May damage fertility or the unborn child
H372: Causes damage to organs through prolonged or repeated exposure

Precautionary statements (Prevention)

P202: Do not handle until all safety precautions have been read and understood.
P260: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.



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Precautionary statements (Response)

P302 + P352: If on skin wash with plenty of soap and water.

P305 + P351 + P338: If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: If exposed or concerned get medical advice/attention.

P332 + P313: If skin irritation occurs get medical advice/attention.

P337 + P313: If eye irritation persists get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

Precautionary statements (Storage and disposal)

P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	CAS No.	EC No.	Concentration	Classification
Thimerosal	54-64-8	200-210-4	0.02%	Acute Tox. 2; Acute Tox. 1; STOT RE 2;
				Aquatic Acute 1; Aquatic Chronic 1;
				H300 + H310 + H330, H373, H410
Bovine Serum Albumin	9048-46-8	232-936-2	1%	Not classified

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed In all cases of doubt, or when symptoms persist, seek medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



5.2. Special hazards arising from the substance or mixture

Carbon oxides.

5.3. Advice for firefighters

Use normal individual fire protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid all unnecessary exposure. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2. Environmental precautions

No additional information available.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Clean thoroughly.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Contains mercury. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parametersComponents with workplace control parametersContains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection: Not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure: Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state: Frozen liquid Color: No data available Odor: No data available Odor threshold: No data available pH: No data available Melting point: No data available Freezing point: No data available Boiling point: No data available Flash point: No data available Evaporation rate: No data available Decomposition temperature: No data available Flammability (solid, gas): No data available Vapor pressure: No data available Relative vapor density: No data available Relative density: No data available Solubility: Water soluble Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions No data available.

10.4. Conditions to avoid No data available.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products No data available.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity LD50 Oral (rat): 75.0 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity

Mutation in mammalian somatic cells.

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

Possible risk of impaired fertility. Possible risk of harm to the unborn child.

Specific target organ toxicity single exposure

No data available.

Specific target organ toxicity repeated exposure

CNS, kidney, skin.

Aspiration hazard No data available.

Additional information

To the best of our knowledge the product does not present any particular risk under normal conditions of use. The chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on human evidence (thimerosal). Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006, as amended.

SECTION 12: Ecological information

12.1. Toxicity Presents no specific risk for the environment in small amounts.

12.2 Persistence and degradability

No data available.



12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methodsProductOffer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Not dangerous goods in accordance with DOT (US) / ADR / RID / ADNR / IMDG / ICAO / IATA 14.1 UN number Not regulated.

14.2 UN proper shipping name Not regulated.

14.3 Transport hazard class(es) Not regulated.

14.4 Packaging group

Not regulated.

14.5 Environmental hazards No data available.

14.6 Special precautions for user No data available.

14.7 Transport in bulk according to Annex II of Marpol73/78 and the IBC Code No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

United States Restrictions

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: 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 Hazards: No SARA Hazards.

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.



Pennsylvania Right To Know Components: Thimerosal, CAS No. 54-64-8. Serum Albumin, CAS No. 9048-46-8. New Jersey Right To Know Components: Thimerosal, CAS No. 54-64-8. Serum Albumin, CAS No. 9048-46-8. California Prop. 65 Components: This product contains a chemical known to State of California to cause cancer, birth defects, or other reproductive harm: Thimerosal, CAS No. 54-64-8.

European Union Restrictions

Act No. 350/2011 Coll., to regulate chemical substances and chemical mixtures and to amend some statutes, as amended. Implemented regulations to Act No. 350/2011 Coll., as amended The Waste Act as amended. Government Decree No. 361/2007 Coll., to regulate the conditions of occupational health and safety, as amended. Regulation of the European Parliament and the Council (EC) No. 1907/2006 (REACH). Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP). Commission Regulation (EU) No. 453/2010. Directives 67/548/EEC as amended and 1999/45/EC as amended.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3. Acute Tox: Acute toxicity Aquatic Acute: Acute aquatic toxicity Aquatic Chronic: Chronic aquatic toxicity H300: Fatal if swallowed H300 + H310 + H330: Fatal if swallowed, in contact with skin or if inhaled H310: Fatal in contact with skin H330: Fatal if inhaled H373: May cause damage to organs through prolonged or repeated exposure H410: Very toxic to aquatic life with long lasting effects STOT RE: Specific target organ toxicity - repeated exposure

Hazardous Material Information System (HMIS) Rating

Health Hazard: 1 Chronic Health Hazard: * Flammability: 0 Physical Hazard: 0

National Fire Protection Association (NFPA) Rating

Health Hazard: 1 Fire Hazard: 0 Reactivity Hazard: 0

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