

Safety Data Sheet

Section 1 : Identification

Product Name: IgG REMOVAL REAGENT

Product Code: GBR-9983 (2.5 mL), GBR-9981 (20 mL)

Product Form: Mixture

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

Laboratory reagent

Manufacturer Name: Bion Enterprises, Ltd.

Emergency Telephone Number: (847) 544-5044

Address: 455 State Street, Suite 100
Des Plaines, IL 60016

Telephone Number for Information: (847) 544-5044

Date Prepared: See bottom of page

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification

Product is not classified as hazardous according to 29CFR 1910.1200 (OSHA Hazard Communication Standard)

2.2 GHS label elements, including precautionary statements

2.3 Other Hazards

This mixture contains material of human or animal origin and is therefore considered potentially infectious.

Section 3: Composition / Information on Ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product Identifier	%	GHS Classification
Goat Serum	N/A	65	
Water	CAS-No. 7732-18-5	>30	
Tris (hydroxymethyl) aminomethane	CAS-No. 77-86-1	4.6	Skin Irritant 2, H315 Eye Irritant 2A, H319 STOT SE 3, H335
Albumins, blood serum	CAS-No. 9048-46-8	0.72	
2,7-Naphthalenedisulfonic acid, 5-(benzoylamino)-3-[[5-[[4-chloro-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]-2-sulfophenyl]azo]-4-hydroxy-, tetrasodium salt	CAS-No. 17681-50-4	0.4	Eye Irritant 2B, H320
Thimerosal (Sodium o-(ethylmercurithio)benzoate)	CAS-No. 54-64-8	0.029	Acute Toxicity 3, (oral), H301 Acute Toxicity 2 (dermal), H310, Acute Toxicity 1 (inhalation: dust, mist), H330 STOT RE, H373

For the full text of H-statements and P-statements mentioned in this Section, see section 16.

Section 4: First-Aid Measures

4.1 Description of first aid measures

After inhalation

If inhaled, move to fresh air and keep at rest in a comfortable position for breathing. Obtain medical attention if breathing difficulty persists.

After skin contact

Wash immediately with plenty of soap and water. Obtain medical attention if irritation persists.

After eye contact

In case of contact with eye flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. If eye irritation persists and consult an ophthalmologist.

After swallowing

Do not induce vomiting. Seek medical attention if a large amount is swallowed.

4.2 Most important symptoms and effects, both acute and delayed**Injuries**

Irritation to eyes, skin, and respiratory tract.

Injuries after inhalation

Cough. Difficulty in breathing.

Injuries after skin contact

Causes mild skin irritation.

Injuries after eye contact

May cause slight irritation.

Injuries after ingestion

Abdominal pain. Diarrhea. Nausea. Vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media**Suitable extinguishing media**

Not flammable. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or measure

Not combustible. Danger of formation of toxic pyrolysis products. Fire can cause: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters. In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated extinguishing water must be disposed of in accordance with local official regulations.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures**Advice for non-emergency personnel**

Wear suitable protective clothing, gloves, and eye/face protection. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Advice for emergency responders

If possible, stop flow of product. Wear suitable protective clothing, gloves and eye/face protection. Contain any spills with dikes to absorbents to prevent migration and entry into sewers or streams.

6.2 Environmental precautions

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3 Methods and materials for containment and cleaning up**For containment**

Absorb and/or contain spill with inert material, then place into suitable container.

Methods for cleaning up

Clean up any spills as soon as possible, using absorbent material to collect it. Collect absorbed material and place it into sealed, labelled container for proper disposal.

6.4 Reference to other sections

Indications about waste treatment see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene measures

Wear recommended personal protective equipment. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in original container in a cool, dry place. Store in a well-ventilated place. Keep container tightly closed. Store at 2°C to 8°C. Reacts with (strong) oxidizers. Keep away from (strong) acids. Store away from heat. Keep container closed when not in use.

7.3 Specific end use

Laboratory reagent

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Thimerosal CAS No. 54-64-8 (Sodium o-(ethylmercurithio) benzoate)	TWA: 0.1 mg/m ³	Not listed	IDLH: 10 mg/m ³ TWA: 0.05 mg/m ³ Ceiling: 0.1 mg/m ³

8.2 Exposure Controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face protection

Protective safety glasses (goggles) with side protection approved under appropriate government standards such as NIOSH (US).

Skin/Hand protection

Wear protective gloves while handling the product. Dispose of contaminated gloves after use in accordance with the applicable laws and good laboratory practices.

Body protection

Wear suitable personal protective clothing.

Respiratory protection

Not required if the product is used as intended.

Control of environmental exposure

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Do not allow to enter drains, waterways, or soil.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance/Color	Pink
Odor	Odorless
Odor Threshold	No data available
pH	No data available.
Melting point	<0 °C (<32 °F)
Boiling Point	>100 °C (>212 °F)

Flash point	>100 °C (>212 °F)
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper flammability or explosive limit	No data available.
Lower flammability or explosive limit	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	>1
Water solubility	Miscible
Partition coefficient n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	Not classified as an explosive
Oxidizing properties	No data available.

9.2 Other safety data
No additional information.

Section 10: Stability and Reactivity

- 10.1 Reactivity**
Product is not explosive.
- 10.2 Chemical Stability**
No additional information available.
- 10.3 Possibility of hazardous reactions**
No additional information available.
- 10.4 Conditions to avoid**
No additional information available.
- 10.5 Incompatible metals**
No additional information available.
- 10.6 Hazardous decomposition products**
No additional information available.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
No data available.

Chemical Name	LD50 Oral	ATE (oral)
Tris (hydroxymethyl) aminomethane Cas No. 77-86-1	5900 mg/kg (Rat)	5900 mg/kg

Skin corrosion/irritation
No data available.

Serious eye damage/irritation
No data available.

Skin Sensitization
No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

The mixture is not classified in carcinogenicity.

IARC: No ingredient of this product present at levels at or greater than or equal 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels at or greater than or equal 0.1% is identified as known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels at or greater than or equal 0.1% is on OSHA's list of regulated carcinogens.

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.

11.2 Additional Information

Quantitative data on the toxicity of this product is not available.

Section 12: Ecological Information

12.1 Toxicity

Quantitative data on the toxicity of this mixture is not available.

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

This substance/mixture does not contain components in concentrations of 0.1% or higher classified as either persistent, Bioaccumulative and toxic (PBT) or very persistent and very Bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Do not allow to enter drains, waterways, or soil.

12.8 Additional ecological information

Discharge into the environment should be avoided.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste should be disposed of in accordance with federal, state, and local environmental control regulations. Disposal of packaging according to the instructions of public authorities.

Section 14: Transportation Information

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

Further Information

Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

15.2 Chemical safety assessment

For all components, a chemical safety assessment was not carried out.

US Regulations**Sara 302 Components**

These products do not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

Sara 313 Components

These products do not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CWA (Clean Water Act)

These product does not contain any substances regulated as pollutants in accordance with the Clean Water Act (40 CFR 116.4)

U.S. State Right -to-know regulations**California Proposition 65**

These products do not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right to Know Components

No components are subject to the New Jersey Right to Know Act.

Pennsylvania Right to Know Components

No components are subject to the Pennsylvania Right to Know Act.

Chemical Name	US-Texas	US-Texas
Tris (hydroxymethyl) aminomethane 77-86-1	Effects Screening levels Long Term	Effects Screening Levels Short Term

Section 16: Other Information

Safety data for product including all components. This product is intended for professional laboratory use. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Full text to the H-Statements mentioned in heading 2:

H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H315 Cause skin irritation.
H319 Causes serious eye irritation.
H320 Causes eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
STOT SE Specific Target Organ Toxicity – Single Exposure
STOT RE Specific Target Organ Toxicity – Repeated exposure

List of abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate (oral)
Ceiling	Maximum Limit Value
CWA	Clean Water Act
DOT	Department of Transportation
IATA	International Air Transport Association
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LD	Lethal Dose
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety & Health Administration
PBT	Persistent (P), Bioaccumulative (B), Toxic (T)
PEL	Permissible Exposure Limits
TLV	Threshold Limit Value
TWA	Time-weight Average
vPvB	Very persistent (vP), very Bioaccumulative (vB)

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.