

SAFETY DATA SHEET

VERSION 5.0 | REVISED: 2026-09-17

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Name: Purified Recombinant Protein / Recombinant Immunoglobulin Protein (E.coli, Yeast, Baculovirus, Mammalian Expression Systems)

1.2 Catalog Numbers Covered: RP, Custom Protein Series

1.3 Recommended Use: For Laboratory Research Use Only. Laboratory chemicals, manufacture of substances. Not for human or animal therapeutic or clinical diagnostic use.

1.4 Company Identification: Biomatik Corporation, 4 Third Ave, Kitchener, Ontario, N2C 1N6, Canada

1.5 Contact Telephone / Email: 1-519-489-7195 | Email: info@biomatik.com

1.6 Emergency Telephone Number: 1-519-590-7717

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] and 29 CFR 1910.1200 [OSHA HazCom]:

2.1 Classification of the mixture: The product is not considered hazardous or dangerous under GHS, CLP, or OSHA criteria.

2.2 Label Elements: No signal word, hazard pictograms, or hazard statements required.

2.3 Other Hazards: This substance/mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is supplied in lyophilized powder form, aqueous phosphate buffer solution, or glycerol-preserved liquid containing purified recombinant proteins and non-hazardous formulation additives:

Component / Formulation Additive	CAS No.	EC / EINECS No.	% Weight / Concentration
Purified Recombinant Protein / Immunoglobulin	—	—	Variable (< 1.0%)
Glycerol (optional formulation buffer)	56-81-5	200-289-5	50.0%
Tris(hydroxymethyl)aminomethane (Tris)	77-86-1	201-064-4	< 1.0%
Ethylenediaminetetraacetic acid (EDTA)	60-00-4	200-449-4	< 0.1%
Trehalose	99-20-7	202-739-6	< 5.0%
Sarcosyl (N-Lauroylsarcosine)	137-16-6	205-281-5	0.01%

4. FIRST AID MEASURES

First aid personnel should ensure self-protection.

Ingestion: If swallowed, wash the mouth out with water if the person is conscious. Seek immediate medical attention or call the poison control center if discomfort occurs.

Skin Contact: Flush skin with copious amounts of water and wash thoroughly with soap and water for at least 15 minutes. Immediately remove contaminated clothing. Seek medical attention if irritation develops.

Inhalation: Remove person from exposure to fresh air. If breathing becomes difficult, give oxygen. If respiratory irritation, dizziness, or unconsciousness occurs, seek immediate medical attention.

Eye Contact: Check for and remove contact lenses if present. Flush eyes with large volumes of water for at least 15 minutes, separating eyelids with fingers. Get immediate medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

5.1 Flammability & Flashpoint: Product does not pose a significant risk in case of fire. Flashpoint: N/A. Flammable Limits: N/A.

5.2 Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide appropriate for surrounding site conditions.

5.3 Hazardous Combustion Products: Thermal decomposition may emit toxic fumes, including carbon oxides, nitrogen oxides (NO_x), sulfur oxides, and hydrogen chloride gas.

5.4 Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus (SCBA) and full protective gear appropriate for site conditions.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or dust. Ensure adequate ventilation.

6.2 Environmental Precautions: Do not let product enter drains, groundwater, or watercourses.

6.3 Clean-Up Methods: Pick up and arrange disposal without creating dust. Sweep up, shovel, or absorb on inert material and place in suitable, closed containers for proper disposal.

7. HANDLING AND STORAGE

7.1 Safe Handling Precautions: Avoid contact with skin, eyes, and clothing. Avoid inhalation of dust, vapor, or mist. Wear personal protective equipment. Material may be air-sensitive; desiccation recommended. Wash body areas thoroughly after handling.

7.2 Storage Conditions: Keep container tightly closed in a dry, cool, and well-ventilated place. Store at room temperature or as recommended on product label/vial insert. Keep upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters: Contains no hazardous materials with workplace occupational exposure limit values established by regional regulatory bodies.

8.2 Engineering Controls: Provide adequate local exhaust ventilation, fume hoods, safety showers, and eyewash stations.

- **Eye / Face Protection:** Safety glasses with side-shields.
- **Skin & Body Protection:** Chemical-resistant gloves satisfying specifications. Inspect before use. Wash and dry hands.
- **Respiratory Protection:** None required if ventilation is adequate. For nuisance exposures, use particle respirators.

- **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Do not eat, drink, or smoke at working site.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Appearance / Form	Lyophilized powder or liquid solution	Vapor Pressure	Not applicable / Unknown
Color / Odor	White / Slightly smelly or odorless	Vapor Density	Not applicable / Unknown
Odor Threshold	Not applicable	Relative Density / Specific Gravity	Unknown
pH Value	5.0 - 10.0	Water Solubility	100% soluble / Miscible
Melting Point / Freezing Point	Not applicable / Unknown	Partition Coefficient	Unknown
Boiling Point / Range	Not applicable / Unknown	Auto-ignition Temperature	Will not occur
Flash Point	Not applicable / Non-flammable	Decomposition Temperature	No data available
Evaporation Rate	Not applicable / Unknown	Viscosity	No data available
Flammability (solid, gas)	Not Flammable	Explosive / Oxidizing Properties	Not applicable

10. STABILITY AND REACTIVITY

10.1 Chemical Stability: Product is stable under recommended storage conditions.

10.2 Incompatible Materials: Strong acids, strong alkalis, strong oxidizing agents, strong reducing agents.

10.3 Conditions to Avoid: Heat, moisture, direct light.

10.4 Hazardous Decomposition Products: None known under normal transport or storage conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological Summary: Acute toxicity: No data available. 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. Carcinogenicity: No component present at $\geq 0.1\%$ is identified as probable, possible, or confirmed human carcinogen by IARC. Reproductive toxicity / STOT: No data available. Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity Safeguard: Do not allow product to reach groundwater, watercourse, or sewage system. Persistence, bioaccumulation, and soil mobility data not available.

13. DISPOSAL CONSIDERATIONS

13.1 Product Disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber, or dispose of in accordance with local, state, or national environmental regulations.

13.2 Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 DOT (US): Not regulated as dangerous goods for transport.

14.2 ADR / RID (Road/Railway): Not restricted.

14.3 IMO / IMDG (Sea): Not restricted / Non-hazardous for sea freight.

14.4 ICAO / IATA (Air): Not restricted / Non-hazardous for air freight.

14.5 TDG (Canada): Not regulated.

15. REGULATORY INFORMATION

This safety datasheet complies with Regulation (EC) No. 1907/2006 (REACH) and OSHA Hazard Communication Standard 29 CFR 1910.1200.

15.1 US Federal and State Regulations:

- **US Regulations:** TSCA, SARA 313, SARA 311/312 Hazards, CERCLA RQ, California Proposition 65: Not listed / Not applicable.

16. OTHER INFORMATION

16.1 Intended Use Notice: This material is sold for laboratory research purposes only by personnel familiar with good laboratory habits. It is not for any human or animal therapeutic or clinical diagnostic use.

16.2 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 guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. Biomatik Corporation shall not be held liable for any damage resulting from handling or contact with the product.

End of Safety Data Sheet