



Ab Biotechnology Ltd

Product, Process, Assay Development & GMP Biomanufacturing

Material Safety Datasheet

Recombinant Human IFN- γ

I Identification of the Substance/Mixture and of the Company

I.1 Identification of the Substance/Preparation

Product Type: *E.coli*-derived Recombinant Human Interferon gamma (IFN- γ)

I.2 Application of the Substance or Mixture

For research use only

I.3 Company Identification

Ab Biotechnology Ltd.

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2. Hazards Identification

2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label Elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other Hazards

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

3. Composition/ Information on Ingredients

3.1 Substances

This product contains Recombinant Human IFN-gamma protein. This is not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567 or 29 CFR 1910.1200 [OSHA]. The following safety data sheet identifies the hazards related to product, and constituent chemicals in undiluted form that make up the buffer.

Where the ingredients are used in a diluted form the risk of harm being caused by certain ingredients during handling of this product may be reduced compared with the undiluted ingredient. However, the hazards are still present and users should handle the product with care accordingly. This assessment should be used as a guide only and does not represent an all-inclusive study of the product. As with all biological material, reduce direct handling to a minimum and wear appropriate protective clothing.

3.2 Mixtures

Buffer

4.2mM NaH₂PO₄ x 2H₂O, 5.8mM Na₂HPO₄ x 12 H₂O (10mM NaPO₄), pH7.4, 0.1% Polysorbate 80, 0.04mg/mL mannitol.

All constituents of the buffers in which this product is supplied are non-hazardous according to Regulation (EC) No. 1272/2008.

Eye contact may cause transient eye irritation. Ingestion may cause allergic reaction characterized by a rash. Low hazard for industrial handling.

Product

Recombinant Human IFN-gamma Protein

4. First-aid Measures

- Skin:** In case of contact wash off skin thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing and shoes, and wash before re-use. In severe cases obtain medical attention.
- Lungs:** If inhaled, remove from exposure, rest and keep warm. Monitor breathing. If breathing stops, give artificial respiration. In severe cases seek medical attention.
- Mouth:** If ingested, wash out mouth thoroughly with water and give plenty of water to drink. Do not induce vomiting unless directed to by medical personnel. Obtain medical attention giving details of product constituents and any notable hazards.
- Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical help.

5. Firefighting Measures

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

Hazardous combustion products: In combustion, may emit toxic fumes

Special considerations: None

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. Provide adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2. Environmental Precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Avoid generation of dust. Clear contaminated areas thoroughly. Wash with plenty of water.

6.4. Reference to other Sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and Storage

Store as directed on individual certificate of analysis.

8. Exposure Controls/Personal Protection

Gloves: The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it

Eye protection: Use goggles or face shield

Other protection: Use long sleeved laboratory coat

9. Physical and Chemical Properties

Form:	Liquid
Color:	Clear
Odor:	Odorless
pH:	7.4
Boiling Point:	Not determined
Melting Point:	Not determined
Flash Point:	Not applicable
Flammability:	Not flammable
Auto flammability	Will not occur
Vapor Pressure:	Not applicable
Water Solubility:	Soluble
Relative Density:	Not determined

10. Stability and Reactivity

Stable under normal handling conditions. No further data.

11. Toxicological Information

No data available.

12. Ecological Information

No data available.

13. Disposal Considerations

This product should be disposed of in accordance with local waste disposal authority guidelines or passed to a chemical disposal company.

14. Transport Information

Road / Railway Haulage ADR/RID:	Not restricted.
Sea Freight IMO (IMDG):	Not restricted.
Air Freight IATA (ICAO): UN	Not restricted.
Number:	Not applicable.

15. Regulatory Information

Please note that we provide this MSDS on a voluntary basis since the product is not applicable to the REACH regulation due to the small amount produced.

We list all components to our best knowledge and assume no liability in case the components of the product differ from the above stated.

16. Reference

This document has been produced to provide health and safety information in accordance with Control of Substances Hazardous to Health Regulations (1999) COSHH, Personal Protective Equipment (PPE) Regulations (2022) and Management of Health and Safety at Work Regulations (1999). The information contained in this safety data sheet is believed to provide relevant information that will aid the safe handling and use of all these products. However, it does not claim to be an all inclusive assessment and should be used as a guide only. Ab Biotechnology Ltd. shall not be held liable for any damage resulting from contact with this product.

For professional use only.