

MATERIAL SAFETY DATA SHEET

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

Product identifiers

Product name: IL-4 human rec.
Product number: CB-2130405, CB-2130407, CB-2130410
Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company: PAN Biotech GmbH
Am Gewerbepark 13
94501 Aidenbach
GERMANY

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Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

2. HAZARDS IDENTIFICATION

The product contains no substances which at their given concentration, are considered hazardous to health. We recommend handling all chemicals with caution.

Indication of danger:

Not hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recombinant Human IL-4 is a pleiotropic cytokine produced by activated T cells. Recombinant human IL-4 is a single, non-glycosylated polypeptide chain containing 130 amino acids and having a molecular mass of 15kDa.

4. FIRST AID MEASURES

Skin contact:

Wash off immediately with plenty of water. If symptoms persist, call a physician.

Eye contact:

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Ingestion:

Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. If symptoms persist, call a physician.

Notes to physician:

Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

dry chemical

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment

Methods for cleaning up:

Take up mechanically and collect in suitable container for disposal

7. HANDLING AND STORAGE

Handling:

No special advice required

Storage:

Keep in properly labelled containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Engineering measures:

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment

Hand protection: Impervious gloves

Skin and body protection: Lightweight protective clothing

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Prevent from entering drains

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State: solid
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Flash Point	Not available
Flammability	Not available
Autoignition Temp	Not available
Oxidizing Properties	Not available
Explosive Properties	Not available
Explosion Limits	Not available
Vapor Pressure	Not available
Partition Coefficient	Not available
Viscosity	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
Evaporation Rate	Not available
Bulk Density	Not available
Decomposition Temp.	Not available
Solvent Content	Not available
Water Content	Not available
Surface Tension	Not available
Conductivity	Not available
Miscellaneous Data	Not available
Solubility	Not available

10. STABILITY AND REACTIVITY

Stability: stable

Materials to avoid: No information available

Hazardous decomposition Products: No information available

Polymerization: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

No data available

Principle routes of Exposure/

Potential Health effects:

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pan-biotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.