

# 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  
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GERMANY

Telephone: +49-(0)8543-6016-30  
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E-mail: info@pan-biotech.de

### 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:**

**Eyes:** May cause eye irritation of susceptible persons.

**Skin:** No information available

**Inhalation:** May cause irritation of respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Specific effects**

**(Long term effects)**

**Carcinogenic effects:** No information available

**Mutagenic effects:** No information available

**Reproductive toxicity:** No information available

**Sensitisation:** No information available

**Target organ Effects:** No information available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects:** No information available

**Mobility:** No information available

**Biodegradation:** Inherently biodegradable

**Bioaccumulation:** Does not bioaccumulate

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations

**14. TRANSPORT INFORMATION**

**UN number**

ADR/RID: - IMDG: - IATA: -

**UN proper shipping name**

ADR/RID: not dangerous goods IMDG: not dangerous goods IATA: not dangerous goods

**Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**Packaging group**

ADR/RID: - IMDG: - IATA: -

**Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**Special precautions for user** no data available

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**Chemical Safety Assessment**

no data available

## **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](http://www.pan-biotech.com) or reverse side of invoice or packing slip for additional terms and conditions of sale.