

# MATERIAL SAFETY DATA SHEET

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

### Product identifiers

Product name: TNF alpha murine rec.  
Product number: CB-1212011M, CB-1212011  
Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, for research use only

### Details of the supplier of the safety data sheet

Company PAN Biotech GmbH  
Am Gewerbepark 13  
94501 Aidenbach  
GERMANY  
  
Telephone: +49-(0)8543-6016-30  
Fax: +49-(0)8543-6016-49  
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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health

## 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 fire fighters**

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
Boiling point/Boiling point range	Not available
Melting point/Melting point range	Not available
Flash Point	Not available
Flammability	Not available
Auto-ignition Temp	Not available
Oxidizing Properties	Not available
Explosive Properties	Not available
Explosion Limits	Not available

Vapour Pressure	Not available
Partition Coefficient	Not available
Viscosity	Not available
Vapour Density	Not available
Saturated Vapour 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

**Sensitization** 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 bio accumulate

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

