

# SAFETY DATA SHEET

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

### 1.1. Product identifiers

Product name: P04-20251  
Product number: IMDM, w/o: L-Glutamine, w: Insulin hum. rec., w: PVA, w: 3.024 g/L  
NaHCO<sub>3</sub>

Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

### 1.4. Emergency telephone number

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

## 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

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3. Other hazards

none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Mixtures

No components need to be disclosed according to the applicable regulations.

## 4. FIRST AID MEASURES

#### **4.1. Description of first aid measures**

##### **If inhaled**

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration.

##### **In case of skin contact**

In case of contact, immediately wash skin with soap and copious amounts of water.

##### **In case of eye contact**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

##### **If swallowed**

If swallowed, wash out mouth with water provided person is conscious. Call a physician if symptoms persist.

#### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

### **5. FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2. Special hazards arising from the substance or mixture**

Carbon oxides

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

#### **6.2. Environmental precautions**

Do not let product enter drains

#### **6.3. Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

#### **6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Normal measures for preventive fire protection.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage temperature: 2-8 °C**

### 7.3. Specific end use(s)

No further information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters: not required

### 8.2. Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Do not let product enter drains

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance Form:</b>	liquid
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	6.9 – 7.5
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flammability</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available

<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 10. STABILITY AND REACTIVITY

### 10.1. **Reactivity**

No data available

### 10.2. **Chemical stability**

Stable under recommended storage conditions

### 10.3. **Possibility of hazardous reactions**

No data available

### 10.4. **Conditions to avoid**

No data available

### 10.5. **Incompatible materials**

Strong oxidizing agents

### 10.6. **Hazardous decomposition products**

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. **Information of toxicological effects**

#### **Acute toxicity**

no data available

#### **Skin corrosion/irritation**

May cause skin irritation.

#### **Serious eye damage/eye irritation**

May cause eye irritation.

#### **Inhalation:**

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

#### **Ingestion:**

May be harmful if swallowed.

#### **Respiratory or skin sensitization**

no data available

#### **Germ cell mutagenicity**

no data available

#### **Carcinogenicity**

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

no data available

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**

no data available

#### **Aspiration hazard**

no data available

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

**12.1. Toxicity**

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6. Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**14.1. UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2. UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3. Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5. Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6. Special precautions for user**

No data available

**15. REGULATORY INFORMATION**

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

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

No data available

**15.2. 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.

# SAFETY DATA SHEET

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

### 1.1. Product identifiers

Product name: Lipid Supplement (1000x)  
Product number: P04-20251L

Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

### 1.4. Emergency telephone number

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

## 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

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3. Other hazards

none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Mixtures

No components need to be disclosed according to the applicable regulations.

## 4. FIRST AID MEASURES

#### **4.1. Description of first aid measures**

##### **If inhaled**

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration.

##### **In case of skin contact**

In case of contact, immediately wash skin with soap and copious amounts of water.

##### **In case of eye contact**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

##### **If swallowed**

If swallowed, wash out mouth with water provided person is conscious. Call a physician if symptoms persist.

#### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

### **5. FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2. Special hazards arising from the substance or mixture**

Carbon oxides

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

#### **6.2. Environmental precautions**

Do not let product enter drains

#### **6.3. Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

#### **6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Normal measures for preventive fire protection.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage temperature: 2-8 °C**

#### **7.3. Specific end use(s)**



No further information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters: not required

### 8.2. Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Do not let product enter drains

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance Form:</b>	liquid
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flammability</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available

<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information of toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

May cause skin irritation.

#### Serious eye damage/eye irritation

May cause eye irritation.

#### Inhalation:

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

#### Ingestion:

May be harmful if swallowed.

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6. Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**14.1. UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2. UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3. Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5. Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6. Special precautions for user**

No data available

**15. REGULATORY INFORMATION**

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

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

No data available

**15.2. 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.

# SAFETY DATA SHEET

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

### 1.1. Product identifiers

Product name: Deferiprone Supplement (500x)  
Product number: P04-20251BS

Brand: PAN Biotech

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

### 1.4. Emergency telephone number

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

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard Class	Abbreviation	Category	Hazard Statement
Acute Toxicity (oral)	Acute. Tox (oral)	4	H302
Substance or mixture corrosive to metals	Met. Corr.	1	H290
Skin irritation	Skin Irrit.	2	H315
Serious eye damage	Eye Dam.	1	H318

## 2.2. Label Elements

### Labeling according to Regulation (EC) No 1272/2008 [CLP]

- -Hazard pictograms: GHS 05; GHS 07



- Signal word: **Danger**
- Hazard Statements:
  - H290 May be corrosive to metals
  - H302 Harmful if swallowed
  - H315 Causes skin irritation
  - H318 Causes serious eye damage
- -Precautionary Statements:
  - P234 Keep only in original container/packaging.
  - P270 Do not eat, drink or smoke when using this product.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P301+P312+P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
  - P302 + P352 IF ON SKIN: Wash with soap and water.
  - P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - P321 Specific treatment (see section 4 on this label).
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P390 Absorb spillage to prevent material damage.
  - P406 Store in corrosive resistant container with a resistant inner liner.

## 2.3. Other hazards

none

## 2.4.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Mixtures

Substance Name	CAS No	Weight %	Classification according to Regulation (EC) No 1278/2008 (CLP)
Iron(III) chloride hexahydrate	10025-77-1	6.7 – 7.4	Met. Corr. 1 Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1
3-Hydroxy-1,2-dimethyl-4(1H)-pyridone	30652-11-0	10.3 – 11.4	Acute Tox. 4

### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### General remarks

Do not leave the victim unattended. Remove victim from the danger zone. Keep the victim calm, cover and keep warm. Remove soiled/soaked clothing immediately. If symptoms occur or if in doubt, seek medical attention. If unconscious, place in recovery position and do not administer anything by mouth.

##### If inhaled

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration. Get medical advice/attention.

##### In case of skin contact

In case of contact, immediately wash skin with soap and copious amounts of water. Get medical advice/attention.

##### In case of eye contact

In case of contact with eyes, flush with copious amounts of water, remove contact lenses if present and easy to do and continue rinsing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical advice/attention.

##### If swallowed

If swallowed, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth, if victim is conscious. Do not induce vomiting

#### 4.2. Most important symptoms and effects, both acute and delayed

Coughing; Nausea; Vomiting; Cardiovascular disorders; Shortness of breath; Irritation and corrosivity. Risk of serious eye damage.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

### 5. FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Substances or mixtures corrosive to metals

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas.

**6.2. Environmental precautions**

Do not let product enter drains

**6.3. Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Normal measures for preventive fire protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended storage temperature: 2-8°C**

**7.3. Specific end use(s)**

No further information available.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components with workplace control parameters: Iron(III)-chloride hexahydrate

#### Occupational exposure limits

Country	Working material	STEL[mg/m <sup>3</sup> ]	TWA[mg/m <sup>3</sup> ]	Note	Source
Germany	General dust limit value, Respirable fraction	1.25	2.5	r	TRGS900
Germany	General Dust limit value (respirable fraction; granular biopersistent dusts, GBS)	0.3	2.4	r	DFG
Germany	General Dust limit value (inhalable fraction)	4		i	DFG

#### Description

**STEL:** Short-term exposure value (limit value for short-term exposure): Limit value that should not be exceeded, based on a duration of 15 minutes (unless otherwise specified)

**TWA:** time weighted average: (limit value for long-term exposure): Time-weighted average, measured or calculated for a reference period of reference period of eight hours (unless otherwise specified)

r: alveolar fraction

i: inhalable fraction

#### Exposure limits relevant to human health

Exposure Limit	Threshold Value	Exposure Path	Exposure duration
DNEL	2.8 mg/kg BW/day	human dermal	chronic - systemic effects

### 8.2. Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with Acrylonitrile butadiene rubber gloves with at least 0.11mm material thickness. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Body Protection**

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Use respiratory protection filter and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Recommendations for respiratory protection filters are based on the following standards:

DIN EN 143, DIN 14387 and associated standards for respiratory protection systems.

Recommended filter type: Filter type P2

### **Control of environmental exposure**

Do not let product enter drains

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance Form:</b>	liquid
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flammability</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Substances or mixtures corrosive to metals

### 10.2. Chemical stability

Stable under recommended storage conditions

### 10.3. Possibility of hazardous reactions

Substances or mixtures with a corrosive effect on metals.

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Metals, strong oxidizing agents

### 10.6. Hazardous decomposition products

Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information of toxicological effects

#### Acute toxicity

Harmful if swallowed

#### Skin corrosion/irritation

Cause skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Inhalation:

Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

#### Ingestion:

Harmful if swallowed.

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### Aspiration hazard

no data available

#### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available



According to Regulation [EC] No. 1907/2006  
Version 1.0  
Revised 30/11/2023



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.