



# Safety Data Sheet (SDS)

www.medkoo.com

Version: 3.12  
Print Date: 7/5/2020  
Revision Date: 7/5/2020

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name: Pralatrexate  
Product Catalogue Number: 206221  
Brand: MedKoo Biosciences  
CAS-No: 146464-95-1

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

Identified uses: Laboratory chemicals, Synthesis of substances.

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

Company: MedKoo Biosciences, Inc.  
2500 Gateway Centre Blvd. Suite 400, Morrisville, NC27560, USA  
Telephone: 919-636-5577  
Fax: 919-980-4831

### 1.4 Emergency telephone number

For chemical emergency spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Reproductive toxicity (Category 2), H361

### 2.2 Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statement(s)

H361: Suspected of damaging fertility or the unborn child.

#### Precautionary statement(s)

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P280: Wear protective gloves/ eye protection/ face protection.  
P308 + P313: IF exposed or concerned: Get medical attention/advice.  
P501: Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards – no data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: 10-Propargyl-10-deazaaminopterin; PDX  
Formula:  $C_{23}H_{23}N_7O_5$   
Molecular weight: 477.47  
CAS-No: 146464-95-1

| Component    | Classification | Concentration |
|--------------|----------------|---------------|
| Pralatrexate | Repr. 2; H361  | <= 100 %      |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a doctor and show this safety data sheet.

#### If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

#### In case of eye contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

#### If swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. Consult a doctor.

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

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

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

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

### **5. FIRE-FIGHTING MEASURES**

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#### **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**

In combustion, may emit toxic fumes.

#### **5.3 Precautions for fire-fighters**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

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

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

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

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

For required PPE see section 8. For disposal see section 13.

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

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

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

#### **7.3 Specific end uses**

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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#### **8.1 Control parameters**

##### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### **8.2 Exposure controls**

##### **Appropriate engineering controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

##### **Personal protective equipment**

###### **Eye/face protection**

Use appropriate safety glasses.

###### **Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

###### **Body protection**

Wear appropriate protective clothing.

###### **Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

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

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

|                |                    |                  |                   |
|----------------|--------------------|------------------|-------------------|
| Appearance     | Light yellow solid | Vapor pressure   | No data available |
| Odor           | No data available  | Vapor density    | No data available |
| Odor threshold | No data available  | Relative density | No data available |

|  |                   |                           |  |
|--|-------------------|---------------------------|--|
| pH   | No data available | Solubility(ies)           | ~1 mg/ml in PBS (pH 7.2); ~3 mg/ml in DMSO; ~14 mg/ml in DMF |
| Melting / freezing point                       | No data available | Partition coefficient     | No data available  |
| Boiling point / range                          | No data available | Auto-ignition temperature | No data available  |
| Flash point                                    | No data available | Decomposition temperature | No data available  |
| Evaporation rate                               | No data available | Viscosity                 | No data available  |
| Flammability (solid, gas)                      | No data available | Explosive properties      | No data available  |
| Upper / lower flammability or explosive limits | No data available | Oxidising properties      | No data available  |

## 9.2 Other safety information

No data available

## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4 Conditions to avoid

Heat, moisture.

### 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

### 10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Acute Toxicity

Intraperitoneal TDLO (mouse): 20 mg/kg/10D (intermittent)

#### Additional Information

RTECS No: MA1170000

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

## 12. ECOLOGICAL INFORMATION

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### 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

No data available

### 12.6 Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

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### 13.1 Waste treatment methods

#### Product

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

#### Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

## 14. TRANSPORT INFORMATION

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Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

**14.1 UN-Number**

UN3077

**14.2 UN proper shipping name**

Environmentally hazardous substances, solid, n.o.s. (Pralatrexate)

**14.3 Transport hazard class(es)**

9 – CLASS 9

**14.4 Packaging group**

Packing Group III

**14.5 Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

**14.6 Special precautions for users**

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

**15. REGULATORY INFORMATION**

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This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

No data available

**California Proposition 65**

Not applicable

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been made for this product.

**16. OTHER INFORMATION**

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**Further Information**

Copyright © Medkoo Bioscience. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. See [www.medkoo.com](http://www.medkoo.com) for additional terms and conditions of sale.

**Preparation Information**

MedKoo Biosciences, Inc.

Product Safety – multiple Region

Tel: 919-636-5577

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