

# Safety Data Sheet

## Section 1: Chemical Identification

### 1.1 Chemical Identification

**Product Name:** 3-Fluoro-DL-tyrosine  
**Alternative Names:** DL-m-Fluorotyrosine, Fluorthyrin, Pardinon  
**Catalog Number:** F-249

### 1.2 Relevant Uses and Uses Advised Against

**Recommended Use:** This product is not for use in humans. It is intended for research purposes only.

### 1.3 Supplier Contact Information

**Distributed by:** Gold Biotechnology, Inc.  
1328 Ashby Rd.  
St. Louis, MO 63132  
**Phone:** (314) 890-8778  
**Fax:** (314) 890-0503  
**Email:** [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

### 1.4 Emergency Contact Information

**Emergency Phone:** (800)248-7609 Mon.-Fri., 9am-5pm CST

## Section 2: Hazardous Information

### 2.1 GHS Classification

Acute Toxicity, Oral (Category 4)  
Acute Toxicity: Inhalation (Category 4)  
Acute Toxicity, Skin (Category 4)

### 2.2 GHS Label Elements, Including Precautionary statements



**WARNING!**

### **2.3 Hazard Statements:**

H302: Harmful if swallowed  
H312: Harmful in contact with skin  
H332: Harmful if inhaled

### **2.4 Precautionary Statements:**

P261: Avoid breathing dust/fume/gas/mist/vapor/spray.  
P264: Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear eye protection/face protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330: Rinse mouth.  
P363: Wash contaminated clothing before reuse.  
P501: Dispose of contents/ container to an approved waste disposal plant.

### **2.5 HMIS Classification**

Health hazard:	2
Chronic health hazard:	*
Flammability:	0
Physical hazards:	0

### **2.6 NFPA Rating**

Health Hazard:	2
Fire:	0
Reactivity Hazard:	0

## **Section 3: Composition/Information on Ingredients**

### **3.1 Composition**

<b>Identity:</b>	3-Fluoro-DL-tyrosine
<b>Synonyms:</b>	DL-m-Fluorotyrosine; Fluorothyrim; Pardinon
<b>CAS number:</b>	403-90-7
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> FNO <sub>3</sub>
<b>Molecular Weight:</b>	199.18 g/mole

## **Section 4: First Aid Measures**

### **4.1 Detailed First Aid Measures**

**Inhalation:** If inhaled, remove to fresh air, immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

- Skin:** In case of contact, wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation develops or persists. Wash contaminated clothing before reuse.
- Eye:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- Ingestion:** Never give anything by mouth to an unconscious person. If swallowed, rinse mouth with water. Call a physician.
- Notes to Physician:** Treat symptomatically and supportively.

## **Section 5: Fire Fighting Measures**

### **5.1 Conditions of flammability:**

Not flammable or combustible.

### **5.2 Suitable extinguishing media:**

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

### **5.3 Specific hazards arising from the chemical:**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen fluoride

### **5.4 Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus for fire-fighting if necessary.

## **Section 6: Accidental Release Measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

### **6.2 Environmental precautions:**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **Section 7: Handling and Storage**

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2-8°C. Store desiccated.

## **Section 8: Exposure Controls / Personal Protection**

### **8.1 Control parameters:**

Contains no substances with occupational exposure limit values.

### **8.2 Appropriate engineering controls:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **8.3 Personal Protective Equipment (PPE):**

**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. Wash and dry hands. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. 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 is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Section 9: Physical and Chemical Properties**

### **9.1 General chemical and physical properties**

<b>Appearance:</b>	white crystalline powder
<b>Odor:</b>	Not Available
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	Not Available
<b>Melting Point:</b>	274-280°C
<b>Freezing Point:</b>	Not Available
<b>Boiling Point/Range:</b>	Not Available
<b>Flash Point:</b>	Not Available
<b>Evaporation Rate:</b>	Not Available
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	Not Available

<b>Solubility:</b>	Not Available
<b>Partition Coefficient</b> <i>n-octanol/water:</i>	Not Available
<b>Auto-Ignition</b> <b>Temperature:</b>	Not Available
<b>Decomposition</b> <b>Temperature:</b>	Not Available
<b>Viscosity:</b>	Not Available

## **Section 10: Stability and Reactivity Data**

### **10.1 Reactivity:**

Not Available

### **10.2 Chemical Stability:**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions:**

Not Available

### **10.4 Conditions to avoid:**

Incompatible materials, acids

### **10.5 Incompatible materials:**

Strong oxidizing agents

### **10.6 Hazardous decomposition products:**

Carbon oxides, Sulfur oxides

## **Section 11: Toxicological Information**

### **11.1 Toxicological effects**

**Acute toxicity:**

Not Available

**Skin corrosion/irritation:**

Not Available

**Respiratory or skin sensitization:**

Not Available

**Germ cell mutagenicity:**

Not 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:**

Not Available

**STOT-single exposure:**

Not Available

**STOT-repeated exposure:**

Not Available

**Aspiration hazard:**

Not Available

**Likely routes of exposure:**

Not Available

**Symptoms of exposure:**

Not Available

## **Section 12: Ecological Information**

### **12.1 Toxicity:**

Not Available

### **12.2 Persistence and degradability:**

Not Available

### **12.3 Bioaccumulative potential:**

Not Available

### **12.4 Mobility in soil:**

Not Available

### **12.5 Other adverse effects:**

Not Available

## **Section 13: Disposal Considerations**

Observe all federal, state, and local environmental regulations.

## **Section 14: Transport Information**

### **14.1 US Department of Transportation (DOT):**

Not dangerous goods

### **14.2 International Maritime Dangerous Goods (IMDG):**

Not dangerous goods

### **14.3 International Air Transport Association (IATA):**

Not dangerous goods

## **Section 15: Regulatory Information**

### **SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components:**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards:**

Acute Health Hazard

### **Massachusetts Right To Know Components:**

3-Fluoro-DL-tyrosine

CAS - No.

403-90-7

### **Pennsylvania Right To Know Components:**

3-Fluoro-DL-tyrosine

CAS - No.

403-90-7

### **New Jersey Right To Know Components:**

3-Fluoro-DL-tyrosine

CAS - No.

403-90-7

### **California Prop. 65 Components:**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **Section 16: Other Information**

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, Inc. makes no warranties, express or

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### **Preparation Information**

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Content/Marketing Department  
(800) 248-7609  
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