

## MATERIAL SAFETY DATA SHEET

Date Revised: December 12, 2013

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Fluorescein Methotrexate, triammonium salt  
**Catalog Number:** 00023  
**Unit Size:** 1mg  
**Manufacturer/Supplier:** Biotium, Inc.  
3159 Corporate Place, Hayward, CA 94545, USA  
Phone: 1-510-265-1027, Fax: 1-510-265-1352  
Web: <http://www.biotium.com>

### 2. HAZARDS IDENTIFICATION

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

None

**Classification according to Directive 1999/45/EC**

None

**Labeling according to Regulation (EC) No 1272/2008[CLP]****Hazard pictogram****Signal word** Danger**Hazard statements**

H301 - Toxic if swallowed

H360 - May damage fertility or the unborn child

**Precautionary statements**

P264 - Wash hands thoroughly after handling

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P363 - Wash contaminated clothing before reuse

**HMIS Classification**

Health hazard: 2

Flammability: 0

Physical hazards: 0

**NFPA Rating**

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Fluorescein Methotrexate, triammonium salt	71016-04-1	-	-	≥ 90%	-	-

## 4. FIRST-AID MEASURES

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### **If inhaled**

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

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

Wash off with soap and plenty of water. Consult a physician.

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

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIREFIGHTING MEASURES

### **Suitable extinguishing media**

Dry Chemical.

### **Special protective equipment for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

---

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Store at 4°C. Protect from light.

---

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Substance	Fluorescein Methotrexate, triammonium salt
CAS no.	71016-04-1
Control parameter	No information available

**Personal protective equipment****Hand 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.

**Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Chemical Name	Fluorescein Methotrexate, triammonium salt
Appearance	Orange red Solid
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporate rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility	Soluble in buffer (pH? 6.5) or DMF
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

Explosive properties	No information available
Oxidising properties	No information available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

No data available

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

**Oral LD50** None

**Inhalation LC50** None

**Dermal LD50** None

**Other information on acute toxicity** no data available

**Skin corrosion/irritation** no data available

**Serious eye damage/eye irritation** no data available

**Respiratory or skin sensitization** no data available

**Germ cell mutagenicity** Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

### 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 as 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** May impair fertility. May cause harm to the unborn child

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

Inhalation Harmful by inhalation.  
Ingestion Toxic if swallowed.  
Skin Harmful in contact with skin.  
Eyes Irritating to eyes.

**Additional Information**

RTECS: None

---

**12. ECOLOGICAL INFORMATION**

**Toxicity** no information available  
**Persistence and degradability** no information available  
**Biodegradation** no information available  
**Mobility in soil** no information available  
**Results of PBT and vPvB assessment** no information available  
**Other adverse effects** no information available  
**Additional information** no information available

---

**13. DISPOSAL CONSIDERATIONS**

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

---

**14. TRANSPORT INFORMATION****IATA, IMDG, DOT(US)**

UN number UN2811  
UN proper shipping name Toxic solid, organic, n.o.s (methotrexate)  
Transport hazard class 6.1  
Packing group II  
Environmental hazards none  
Special precaution for user none

---

**15. REGULATION INFORMATION****US Federal Regulations**

US Toxic Substances Control Act(TSCA): Not listed  
SARA 302: No chemicals were found.  
SARA 313: No chemicals were found.  
SARA 311/312 Hazards: No chemicals were found.

---

**16. OTHER INFORMATION**

Classification according to Regulation (EC) Nr. 1272/2008

Prepared by: Regulatory Department  
Biotium Inc.  
Version no. 2  
Reason for revision Application of CLP labeling and corresponding requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.