

**EMS CATALOG NO: 15670**  
**EMS PRODUCT: Fluorescein**  
**Isothiocyanate**  
**DATE: 07-30-2009**  
**PAGE NUMBER: One of 3**

**MATERIAL SAFETY DATA SHEET**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Electron Microscopy Sciences assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

***ELECTRON MICROSCOPY SCIENCES***

1560 INDUSTRY ROAD  
P.O. BOX 550  
HATFIELD PA 19440  
(215) 412-8400

**24 HOUR EMERGENCY PHONE NUMBER**  
CHEMTREC: (800) 424-9300

---

FOR PRODUCT AND SALES INFORMATION

---

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

---

PRODUCT IDENTIFICATION

---

PRODUCT NAME: **Fluorescein Isothiocyanate**

FORMULA:  $C_{21}H_{11}N_{05}S$

CAS #: [3326-32-7]

THRESHOLD LIMIT VALUES: N/E

---

## PHYSICAL DATA

---

BOILING POINT:	N/D	EVAPORATION RATE:	N/D
% VOLATILE BY VOLUME:	N/D	(Butyl Acetate=1)	
VAPOR PRESSURE:	N/D	SPECIFIC GRAVITY:	N/D
VAPOR DENSITY:	N/D	MELTING POINT:	
>360°C			
APPEARANCE/ODOR:	Orange powder, characteristic odor.		

---

## EXPLOSION AND FIRE HAZARD DATA

---

FLASH POINT:	N/D	FLAMMABLE LIMITS
TEST MODE:	N/D	LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical powder, foam.

### SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters must wear self-contained breathing apparatus and fully protective equipment.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Contact with moisture within container may build up pressure.

---

## HEALTH HAZARD

---

ROUTES OF ENTRY: Inhalation, skin and ingestion.

HEALTH HAZARDS (ACUTE AND CHRONIC): **IRRITANT.**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/E

### SIGNS AND SYMPTOMS OF EXPOSURE:

Irritation of eyes, skin, mucous membranes and upper respiratory tract. Prolonged contact can cause nausea, dizziness and headache. Repeated exposure may cause asthma, allergic reaction, or lung irritation.

### EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT: Wash affected area with copious amounts of water.

EYE CONTACT: Flush eyes with water for at least 15 minutes.

INHALATION: Remove to fresh air. Give oxygen or artificial respiration, as needed.

INGESTION: Drink 1 or 2 glasses of water. Call physician.  
Seek medical treatment if discomfort persists.

---

### REACTIVITY DATA

---

STABILITY: Stable

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Water, alcohols, strong bases, amines, acids,  
strong oxidizing agents and heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides,  
hydrogen cyanide and sulfur oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: N/E

---

### SPILL OR LEAK PROCEDURES

---

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear self-contained breathing apparatus, rubber boots and gloves.  
Sweep up. Do not raise dust. Wash and ventilate spill site  
after pickup is complete.

WASTE DISPOSAL METHOD: Mix waste with a combustible carrier and burn  
in a suitably equipped chemical incinerator.

Disposal must comply with Federal, State and Local regulations.

---

## SPECIAL PROTECTION INFORMATION

---

RESPIRATORY PROTECTION: OSHA/MHSA approved respirator

VENTILATION: Mechanical

PROTECTIVE GLOVES: Chemical resistant

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE EQUIPMENT: Safety shower and eye bath, protective clothing.

---

## SPECIAL PRECAUTIONS

---

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store material in dry place (desiccator) and freezer. Keep storage container tightly closed. Avoid prolonged or frequent exposure. Wash thoroughly after handling.

N/A = Not Applicable N/E = Not Established N/D = No Data