**1. PRODUCT AND COMPANY IDENTIFICATION**

- **Product name**: Fluorescein isothiocyanate isomer I
- **Product Number**: F7250
- **Brand**: Sigma
- **Company**: Sigma-Aldrich
  3050 Spruce Street
  SAINT LOUIS MO 63133
  USA
- **Telephone**: +1 800-325-5832
- **Fax**: +1 800-325-5852
- **Emergency Phone #**: (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

- **Synonyms**: FITC
  Fluorescein 5-isothiocyanate
- **Formula**: C21H11NO5S
- **Molecular Weight**: 399.39 g/mol
- **CAS-No.**: 222-042-7
- **EC-No.**: 3326-35-2
- **Index-No.**: -
- **Concentration**: -

**3. HAZARDS IDENTIFICATION**

- **Emergency Overview**
  - **Target Organ Effect, Skin and respiratory sensitizer**
- **Target Organs**
  - Central nervous system, Lungs
- **HMIS Classification**
  - Health Hazard: 3
  - Chronic Health Hazard: 0
  - Flammability: 0
  - Physical hazards: 1
- **NFPA Rating**
  - Health Hazard: 3
  - Fire: 0
  - Reactivity Hazard: 1

**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 breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
- **In case of skin contact**
  Wash off with soap and plenty of water. Consult a physician.
- **In case of eye contact**
  Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- **If swallowed**
  Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIRE-FIGHTING MEASURES**

- **Flammable properties**
  - Flash point: no data available
  - Ignition temperature: no data available
- **Suitable extinguishing media**
  - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special protective equipment for fire-fighters**
  - Wear self-contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

- **Personal precautions**
  - Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
- **Environmental precautions**
  - Do not let product enter drains.
- **Methods for cleaning up**
  - Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

- **Handling**
  - Avoid formation of dust and aerosols.
  - Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
- **Storage**
  - Keep container tightly closed in a dry and well-ventilated place.
  - Recommended storage temperature: 2 - 8 °C
  - Moisture sensitive. Light sensitive. Keep in a dry place.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

Appearance
Form powder

Safety data
pH no data available
Melting point 360 °C (680 °F)
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Water solubility no data available

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Conditions to avoid
Heat. Exposure to moisture.

Materials to avoid
Alcohols, Strong bases, Amines, acids, Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

Acute toxicity
no data available

Irritation and corrosion
no data available

Sensitisation
May cause allergic respiratory and skin reactions

Chronic exposure
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.

11. TOXICOLOGICAL INFORMATION

SIGMA - F7250

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
no data available

Further information on ecology
no data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dispose of or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION
DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
Target Organ Effect, Skin and respiratory sensitizer

TSCA Status
On TSCA Inventory

DSL Status
All components of this product are on the Canadian DSL list.

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
Chronic Health Hazard

Massachusetts Right To Know Components
No Components Listed

Pennsylvania Right To Know Components
2-(6-Hydroxy-3-oxo-(3H)-xanthen-9-yl)-5-isothiocyanobenzoic acid CAS-No. 3328-32-7

New Jersey Right To Know Components
2-(6-Hydroxy-3-oxo-(3H)-xanthen-9-yl)-5-isothiocyanobenzoic acid CAS-No. 3328-32-7

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further Information
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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. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.