



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 09/23/2008  
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Version 1.40

### Section 1 - Product and Company Information

**Product Name** 5(6)-CARBOXYTETRAMETHYLRHODAMINE, FOR FLUORESCENCE  
**Product Number** 21953  
**Brand** Fluka Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052

**Emergency Phone:** 314-776-6555

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
5(6)-CARBOXYTETRAMETHYLRHODAMINE (MIXED ISOMERS)	98181-63-6	No		
<b>Formula</b>	C25H22N2O5			
<b>Synonyms</b>	5(6)-TAMRA			

### Section 3 - Hazards Identification

#### Emergency Overview

Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

#### HMIS Rating

Health: 1 Flammability: 0 Reactivity: 1

#### NFPA Rating

Health: 1 Flammability: 0 Reactivity: 1

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Extinguishing Media

##### Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

##### Protective Equipment

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

### Section 6 - Accidental Release Measures

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed. Store with desiccant.

#### Special Requirements

Store under inert gas. Light sensitive. Moisture sensitive.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

#### Personal Protective Equipment

##### Respiratory

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

##### Hand

Protective gloves.

##### Eye

Chemical safety goggles.

#### General Hygiene Measures

Wash thoroughly after handling.

### Section 9 - Physical/Chemical Properties

#### Appearance

##### Physical State

Solid

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Molecular Weight 430.46 AMU

pH N/A  
BP/BP Range N/A  
MP/MP Range > 300 °C  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A

Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A

Solubility  
Solubility in Water: Slightly.  
Other Solvents: SOLUBLE IN DMF, MECH

N/A = not available

## Section 10 - Stability and Reactivity

### Stability

Stable  
Stable.  
Conditions to Avoid  
Light.

Materials to Avoid  
Strong acids, Strong bases

### Hazardous Decomposition Products

Hazardous Decomposition Products  
Carbon monoxide, Carbon dioxide, Nitrogen oxides

### Hazardous Polymerization

Hazardous Polymerization  
Will not occur.

## Section 11 - Toxicological Information

### Route of Exposure

Skin Contact  
May cause skin irritation.

Skin Absorption  
May be harmful if absorbed through the skin.

Eye Contact  
May cause eye irritation.

Inhalation  
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

### Ingestion

May be harmful if swallowed.

### Signs and Symptoms of Exposure

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

RTECS Number: N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

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

## Section 14 - Transport Information

### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

### IATA

Non-Hazardous for Air Transport Non-hazardous for air transport.

## Section 15 - Regulatory Information

### EU Additional Classification

Safety Statements S: 22 24/25  
Do not breathe dust. Avoid contact with skin and eyes.

### US Classification and Label Text

US Statements  
Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

### United States Regulatory Information

SARA Listed: No

### Canada Regulatory Information

WHMIS Classification  
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No  
NDL: No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

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. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or form contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.