



UNISOURCE CHEMICALS PRIVATE LIMITED

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AN ISO 9001:2008 CERTIFIED COMPANY

FLUORESCEIN

Material Safety Data

1. PRODUCT IDENTIFICATION:

Synonyms:

C.I. 45330:1 ; Benzoic acid, Hydroxy-3-oxo-3H-zanthen-9yl)-;(Carboxyphenyl)-6-hydroxy-3-isoxanthenone; 9-(o-Carboxyphenyl)-6-hydroxy-3H-xanthen-3-one; C.I. solvent yellow 94; 3'6' Dihydroxyfluoran; Dihydroxyfluorane; 3,6-Fluorandiol.

CAS No: 2321-07-5

Molecular Weight: 332.32

Chemical Formula: C₂₀H₁₂O₅

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Fluorescein	2321-07-5	100%	No

3. HAZARDS INFORMATION:

Emergency Overview

Appearance: Red to yellow-red crystalline powder. **Caution!** May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated. May cause dermatitis. Causes eye irritation. May cause skin irritation.

Target Organs: Eyes.

Potential Health Effects

Eyes: Causes eye irritation. May cause chemical conjunctivitis.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. The toxicological properties of this material have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, NSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol resistant foam.

Flash Point: Not available

Auto-ignition Temperature: Not available

Explosion Limits, Lower / Upper: Not available

NFPA Rating: (estimated) Health: 1, Flammability: 0, Instability: 0

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep container closed when not in use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA - Final PELs</u>
Fluorescein	None listed	None listed	None listed

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Crystalline Powder

Appearance: Red to orange to yellow-red

Odor: None reported

Ph: Not available

Vapor Pressure / Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Melting Point: 314 - 316 Deg. C (597-601 Deg. F) decomposes

Boiling Point: Not available

Decomposition Temperature: Not available

Solubility: Insoluble in water

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS#: CAS#2321-07-5:LM5075000

LD50/LC50: CAS#2321-07-5 Draize test, rabbit, eye: 100 ul/24H Severe;

Carcinogenicity:

CAS# 2321-07-5: Not listed by ACGIH, IARC, NIOSH, NTP, Or OSHA.

Epidemiology: No information available

Teratogenicity: No information available

Reproductive Effects: No information available

Neurotoxicity: No information available

Mutagenicity: No information available

Other Studies: No information available

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information available.

Environmental Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination list are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed

RCRA U-Series: None listed

14. TRANSPORT INFORMATION:

Not regulated..

15. REGULATORY INFORMATION:

US FEDERAL

TSCA

CAS#2321-07-5 is listed on the TSCA inventory.

Health and Safety Reporting List

None of the chemicals are on the Health and Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals in this product are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this product have a SNUR under TSCA.

SARA

Section 302 (RQ) & Section 302 (TPQ)

None of the chemicals in this product have an RQ or TPQ.

Section 313

No chemicals in this product are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class1 Ozone Depletors. This material does not contain any Class2 Ozone Depletors.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

State: CAS# 2321-07-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS
European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases: R 36 Irritating to eyes.

Safety Phrases: Not available

WGK (Water Danger/Protection)

CAS# 2321-07-5:1

Canada DSL/NDSL

CAS#2321-07-5 is listed on Canada's DSL list.

Canada WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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