

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Fluorescein *CAS 2321-07-5*

Product number: 1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.

Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588

Telephone: (408)-733-1055

Fax: (408)-733-1304

Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300

Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Serious eye damage/eye irritation: Category 2A

2.2 Label elements

Signal word: Warning

Hazard statements: H319 - Causes serious eye irritation

Symbols/Pictograms:



Precautionary statements - prevention: Wash hands... thoroughly after handling. Do not touch eyes. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary statements - response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists: Get medical help.

Precautionary statements - storage: Not available

Precautionary statements - disposal: Not available

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC): None identified

2.4 Other information

Other hazards: Hazards classified under paragraph (d)(1)(ii) of 1910.1200: No information available

Section 3: Composition/information on ingredients

3.1 Substances

Chemical name: Fluorescein *CAS 2321-07-5*
CAS number: 2321-07-5
Molecular weight: 332.31
Formula: Not available

Section 4: First aid measures

4.1 First-aid measures

General advice: If symptoms persist, call a physician.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact: Get medical attention. Wash off immediately with plenty of water for at least 15 minutes.
Inhalation: Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
Ingestion: Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Self-protection of the first aider: Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Most important symptoms and effects: None reasonably foreseeable.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically

Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media: No information available

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical: Keep product and empty container away from heat and sources of ignition.
Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3 Explosion data

Sensitivity to mechanical impact: No information available
Sensitivity to static discharge: No information available

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

6.2 Environmental precautions

Environmental precautions:

Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for containment:

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials:

Incompatible Materials. Strong oxidizing agents.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate engineering controls

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:

Tight sealing safety goggles.

Skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: Particulates filter conforming to EN 143.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Physical state:	Solid
Solubility in water:	Low
Appearance:	No information available.
Odor/odor threshold:	No information available
pH:	No information available
Melting point/freezing point:	314 - 316 °C / 597.2 - 600.8 °F
Boiling point:	No information available
Flashpoint:	No information available
Liquid density:	No information available.
Evaporation rate:	Not applicable - Solid
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure:	No information available
Vapor density:	Not applicable
Specific gravity:	No data available
Water solubility:	Insoluble
Solubility in other solvents:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Not applicable
Explosive properties:	No information available.
Oxidizing properties:	No information available.

Section 10: Stability and reactivity

Reactivity:	None known, based on information available
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Incompatible products. Excess heat. Avoid dust formation.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO ₂)

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	May cause irritation of respiratory tract. Avoid breathing dust or spray mist. May be harmful if inhaled.
Eye contact:	Moderately irritating to the eyes. Avoid contact with eyes. Irritating to eyes.
Skin contact:	Avoid contact with skin. May cause irritation.

Ingestion:	Ingestion may cause irritation to mucous membranes. May be harmful if swallowed.
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11.2 Information on toxicological effects

Symptoms:	Symptoms / effects, both acute and delayed: No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:	Other Adverse Effects: The toxicological properties have not been fully investigated. Endocrine Disrupting Properties: This product does not contain any known or suspected endocrine disruptors.
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11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:	(c) serious eye damage/irritation: Category 2. Carcinogenicity: Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-dihydroxy- (CAS 2321-07-5): IARC Not listed; NTP Not listed; ACGIH Not listed; OSHA Not listed; Mexico Not listed
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Section 12: Ecological information

Ecotoxicity:	Do not empty into drains.
Persistence and degradability:	Insoluble in water
Bioaccumulation:	No information available.
Mobility:	Is not likely mobile in the environment due its low water solubility.

Section 13: Disposal consideration

Disposal of wastes:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated packaging:	Do not reuse container.
Other information:	None

Section 14: Transport information

DOT:	Not regulated
IMDG:	IMDG/IMO Not regulated
IATA:	Not regulated

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):	Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-dihydroxy- (CAS 2321-07-5): TSCA X; TSCA Inventory notification - Active-Inactive ACTIVE; TSCA - EPA Regulatory Flags '-'. TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT): Not applicable. TSCA 12(b) - Notices of Export: Not applicable
Canada (DSL/NDSL):	DSL X; NDSL '-'
Europe (EINECS/ELINCS/NLP):	EINECS 219-031-8
Australia (AICS):	X
South Korea (KECL):	KE-10869

China (IECSC):	X
Japan (ENCS):	X
Phillipines (PICCS):	X

15.2 US Federal Regulations

SARA 313:	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
SARA 311/312 components:	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act):	Not applicable

15.3 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
U.S. State Right-To-Know Regulations:	Not applicable

Section 16: Other information

16.1 HMIS

Health hazards:	Not determined
Flammability:	Not determined
Reactivity:	Not determined
Personal protection:	Not determined

16.2 NFPA

Health hazards:	Not determined
Flammability:	Not determined
Stability:	Not determined
Physical and chemical properties:	Not determined

16.3 Further information

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. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.