



## SAFETY DATA SHEET

### Fluorescein Injection, USP

#### 1. Identification

**Product Identifier:**

**Fluorescein Injection USP**

**Synonyms:**

**Solvent Yellow 94, Fluorescein, FUSP, Fluorescein Sodium, Acid Yellow 73; Uranine; FD&C yellow 8; CI acid yellow 73, Spiro[isobenzofuran-1(3H), 9'-[9H]xanthen]-3-one, 3',6'-dihydroxy-, disodium salt.**

**National Drug Code (NDC):**

Fluorescein	14789-122-05
Injection USP	14789-123-05

**Recommended Use:**

Pharmaceutical

**Company:**

Nexus Pharmaceuticals, LLC.  
400 Knightsbridge Pkwy  
Lincolnshire IL, 60069  
USA

**Contact Phone:**

(847) 996-3790

**Website:**

[www.nexuspharma.net](http://www.nexuspharma.net)

**Emergency Contact:**

Chemtrec (24 hours): 1-800-424-9300  
Email: [CHEMTREC@chemtrec.com](mailto:CHEMTREC@chemtrec.com)

## **2. Hazard(s) Identification**

**Physical Hazards:** Not classifiable.

**Health Hazards:** Not classified in accordance with international standards for workplace safety.

**Classification of the Substance or Mixture:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Symbol(s):** None

**Signal Word:** Not classified.

**Hazard statement(s):** Not applicable.

**Precautionary Statement(s):** Not applicable.

**Hazards Not Otherwise Classified:** Not applicable.  
Note: This document was prepared by following workplace safety standards which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases.

**Supplementary Information:** None.

### 3. Composition/Information on Ingredients

Chemical Name	CAS Number	Synonyms	Chemical Formula	Molecular Weight	Percentage
Spiro[isobenzofuran-1(3H), 9'-[9H]xanthen]-3-one, 3',6'-dihydroxy-, disodium salt monohydrochloride (1:1)	518-47-8	Solvent Yellow 94, Fluorescein, FUSP, Fluorescein Sodium, Acid Yellow 73; Uranine; FD&C yellow 8; CI acid yellow 73	$C_{20}H_{10}O_5 \cdot Na_2$	376.27	10%

**Inactive Ingredients:** Water for Injection. Sodium Hydroxide and/or Hydrochloric Acid may be used to adjust pH (8.3 – 9.8). For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

### 4. First Aid Measures

**Ingestion:**

If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth with water. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Eye Contact:**

Remove from source of exposure. Flush with copious amounts of water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

**Skin Contact:**

Remove from source of exposure. Remove and isolate contaminated clothing and shoes. Flush with copious amounts of water for at least 20 minutes. Use soap. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

**Inhalation:**

Remove from source of exposure. Move individual(s) to fresh air. Give artificial respiration if individual(s) are not breathing, and call emergency medical service. If signs of toxicity occur,

seek medical attention. Provide symptomatic/supportive care as necessary. Ensure that medical personnel are aware of the material(s) involved and are aware of precautions to protect themselves.

**Protection of First-Aiders:** No data available.

**Signs and Symptoms:** No data available.

**Medical Conditions  
Aggravated by Exposure:** None known.

**Notes to Physician:** None.

## **5. Firefighting Measures**

**Suitable Extinguishing Media:** As for the primary cause of the fire.

**Unsuitable Extinguishing Media:** Not determined.

### **Specific Hazards Arising from the Chemical:**

**Hazardous Combustion Products:** This product includes carbon oxides and sodium oxides.

**Other Specific Hazards:** Closed containers may explode from the heat of fire.

**Special Protective Equipment/  
Precautions for Firefighters:** Wear self-contained breathing apparatus and full and protective gear.

## **6. Accidental Release Measures**

**Personal Precautions:** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate personal protective equipment and clothing.

**Personal Protective Equipment:** For personal protection see section 8.

**Methods for Cleaning Up:** Dike ahead of liquid spills for later disposal. Absorb with inert material. Recover product and place in an appropriate container for disposal in accordance with local, state and federal regulations.

**Environmental Precautions:** Contain material and prevent release to basements, confined spaces, waterways or soil.

**Reference to Other Sections:** Refer to Sections 8, 12 and 13 for further information.

## **7. Handling and Storage**

**Precautions for Safe Handling:** Handle in accordance with product label and/or product insert information. Handle in accordance with good industrial hygiene and safety practices.

**Conditions for Safe Storage,  
Including Any incompatibilities** Store according to label and/or product insert information. Store away from water reactive chemicals.

**Specific End Use:** Pharmaceuticals

## **8. Exposure Controls/Personal Protection**

Occupational Exposure Guidelines:

Common or Chemical Name	Employee Exposure Limits
Fluorescein Sodium	No Occupational Exposure Limit (OEL) or Short Term Exposure Limit (STEL) has been identified.

**Engineering Controls:** Engineering controls should be used as the primary means to control exposure.

**Respiratory Protection:** Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

**Eyes:** Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

**Hand:** Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other

synthetic non-latex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

**Skin:** Wear protective laboratory coat, apron, or disposable garment when working with large quantities.

## **9. Physical and Chemical Properties**

<b>Physical State/Color:</b>	Liquid/Red-orange.
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	8.3 – 9.8.
<b>Melting Point:</b>	Not determined.
<b>Freezing Point:</b>	Not determined.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	This product is not flammable.
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Lower:</b>	No data available.
<b>Flammability Limit - Upper:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.
<b>Vapor Density:</b>	No data available.
<b>Relative Density:</b>	No data available.
<b>Solubility(ies):</b>	Miscible in water.
<b>(n-octanol/water):</b>	No data available.
<b>Auto-Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## **10. Stability and Reactivity**

**Reactivity:** The product is stable and non-reactive under normal conditions of use,

storage, and transport.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid (e.g., static discharge, shock, or vibration):** No data available.

**Incompatible Materials:** Oxidizers, acids, bases..

**Hazardous Decomposition Products:** No data available.

## **11. Toxicological Information**

### **Information on the Likely Routes of Exposure:**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May be harmful if absorbed through the skin. May cause yellowish discoloration. May cause irritation.

**Eye Contact:** May cause eye irritation.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics:** See Section 3. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Delayed and Immediate Effects of Exposure:** No information available.

**Acute Toxicity – Oral:** Rat Oral LD50 6,721 mg/kg

**Acute Toxicity – Dermal:** No information available.

**Acute Toxicity – Inhalation:** No data available.

**Corrosivity:** No data available.

**Dermal Irritation:** No data available.

**Eye Irritation:** No data available.

**Sensitization:** No data available.

**Toxicokinetics/Metabolism:** No data available.

**Target Organ Effects:** No data available.

**Reproductive Effects:** No data available.

**Carcinogenicity:**

National Toxicology Program (NTP): Not considered to be a carcinogen.

International Agency for Research  
on Cancer (IARC): Not considered to be a carcinogen.

Occupational Safety and Health  
Administration (OSHA): Not considered to be a carcinogen.

**Mutagenicity:** Based on available data, the classification criteria are not met.

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

**12. Ecological Information**

**Ecotoxicity**

Aquatic: No harmful effects to aquatic organisms are expected.

Terrestrial: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

**13. Disposal Considerations**

Dispose of all waste in accordance with Federal, State and local regulations.

**14. Transport Information**

UN Number: Not applicable.

UN Proper Shipping Name: Not applicable.

Transport Hazard Class(es): Not applicable.

Packing Group:	Not applicable.
DOT:	Not regulated as a hazardous material.
International Air Transport Association (IATA):	Not regulated as a dangerous good.
International Maritime Dangerous Good (IMDG):	Not regulated as a dangerous good.

## **15. Regulatory Information**

### **International Regulations:**

<b>Ozone depleting substance:</b>	Not applicable
<b>Persistent Organic Pollutant:</b>	Not applicable
<b>The Rotterdam Convention:</b>	Not applicable

### **US Federal Regulations:**

<b>TSCA Inventory</b>	Present. This product is a drug regulated by the Food and Drug Administration (FDA) and is not regulated by TSCA.
<b>CERCLA Hazardous Substance and Reportable Quantity:</b>	Not listed.
<b>SARA 313:</b>	Not listed.
<b>SARA 302:</b>	Not listed.
<b>DEA:</b>	Not listed.

### **State Regulations**

<b>Massachusetts:</b>	Not listed.
<b>New Jersey:</b>	Not listed.
<b>Pennsylvania:</b>	Not listed.
<b>California Proposition 65:</b>	Not listed.

## **16. Other Information**

### **NFPA Rating:**

Health: 0

Flammability: 0

Reactivity: 0

### **HMIS Classification:**

Health: 0

Flammability: 0

Physical Hazard: 0

**Revision Date:** OCT 04, 2023

**Revision Number:** 2

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