



# UNISOURCE CHEMICALS PRIVATE LIMITED

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## FLUOREXON/CALCEIN

### Material Safety Data Sheet

#### **1. PRODUCT IDENTIFICATION:**

**Synonyms:** Bis[N,N-bis(carboxymethyl)aminomethyl]fluorescein; Calcein; Fluorescein complexone; Fluorescein-methylene-iminodiacetic acid.

**CAS No.:**1461-15-0

**Molecular Weight:** 622.55

**Chemical Formula:** C<sub>30</sub>H<sub>26</sub>N<sub>2</sub>O<sub>13</sub>

#### **2. COMPOSITION, INFORMATION ON INGREDIENTS:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Fluorexon	1461-15-0	85-90 %	No

#### **3. HAZARDS IDENTIFICATION:**

##### **Emergency Overview**

**Appearance:** yellow-orange to orange powder. **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this substance have not been fully investigated.

**Target Organs:** None reported.

##### **Potential Health Effects**

**Eyes:** May cause eye irritation.

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

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed. The toxicological properties of this material have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled. The toxicological properties of this material have not been fully investigated.

**Chronic:** No information found.

#### **4. FIRST AID MEASURES:**

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**Skin:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Wash contaminated clothing before reusing. If irritation develops or persists, get medical attention.

**Ingestion: DO NOT INDUCE VOMITING.** If victim is conscious and alert, give 2-4 cupfuls water to wash out mouth. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

**Notes to Physician:** Treat symptomatically and supportively.

## **5. FIRE FIGHTING MEASURES:**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

**Extinguishing Media:** In case of fire, use water spray, dry chemical, chemical foam, or carbon dioxide. Use agent most appropriate to extinguish fire.

**Flash Point:** Not Available.

**Auto-ignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1 , Flammability: 1 , 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## **7. HANDLING AND STORAGE:**

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage:** Keep away from heat. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION:**

### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

### **Exposure Limits**

<b><u>Chemical Name</u></b>	<b><u>ACGIH</u></b>	<b><u>NIOSH</u></b>	<b><u>OSHA - Final PEL's</u></b>
Fluorexon	None listed	None listed	None listed

**OSHA Vacated PELs:** Fluorexon : No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear Appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Physical State:** Solid

**Appearance:** Yellow-orange to orange powder

**Odor:** Odorless

**Freezing/Melting Point:** 200 deg C

**pH:** Not available.

**Vapor Pressure:** No data available.

**Vapor Density:** No data available.

**Evaporation Rate:** No data available.  
**Viscosity:** No data available.  
**Boiling Point:** Not available.  
**Decomposition Temperature:** No information available.  
**Solubility:** Insoluble in water

#### **10. STABILITY AND REACTIVITY:**

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.  
**Conditions to Avoid:** Incompatible materials.  
**Incompatibilities with Other Materials:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide.  
**Hazardous Polymerization:** Will not occur.

#### **11. TOXICOLOGICAL INFORMATION:**

**RTECS:** CAS#1461-15-0 is not listed.  
**LD50/LC50:** CAS#1461-15-0: Not available  
**Carcinogenicity:** CAS# 1461-15-0 : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
**Epidemiology:** Not available.  
**Teratogenicity:** Not available.  
**Reproductive Effects:** Not available.  
**Neurotoxicity:** Not available.  
**Mutagenicity:** Not available.  
**Other Studies:** Not 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 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# 1461-15-0 is listed on the TSCA inventory.

##### **Health & Safety Reporting List**

None of the chemicals are on the Health & 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 are listed under TSCA Section 12b.

##### **TSCA Significant New Use Rule**

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

**SARA**

**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

**Section 302(TPQ)**

None of the chemicals in this product have a TPQ.

**Section 313**

No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**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# 1461-15-0 is not present on state lists from CA, PA, MN, 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**

**Hazardous Symbols:** Not available.

**Risk Phrases:** Not available

**Safety Phrases:** S 24/25 Avoided contact with skin and eyes.

**WGK (Water Danger/Protection)**

CAS#1461-15-0 : No information available.

**Canada - DSL/NDSL**

CAS# 1461-15-0 is listed on Canada's DSL List.

**Canada - WHMIS**

**WHMIS:** Is not available

CAS# 1461-15-0 is not listed on Canada's Ingredient Disclosure List.

**16. DISCLAIMER INFORMATION:**

**DISCLAIMER:**

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