

## SAFETY DATA SHEET

HELENA LABORATORIES  
1530 Lindbergh Dr.  
Beaumont, TX 77707  
USA Toll Free 800-231-5663

DATE PREPARED: 5/17/2024  
REVISION: 6

**1. IDENTIFICATION**

**Product Number:** 2002

**Product identifier used on the label:** Protofluor Reagent

**Other means of identification:**

Component Name	Component Number
Protofluor Reagent	2002/500736

**Recommended use of the chemical and restrictions in use:** For In-Vitro Diagnostic use.

**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

Helena Laboratories  
1530 Lindbergh Dr.  
Beaumont, TX 77707  
Tel: (409) 842-3714  
USE Toll Free 800-231-5663

**Emergency phone number:**  
(409) 842-3714

**2. HAZARD IDENTIFICATION**

**Classification of the chemical:**

Component Name	GHS Classification	Hazard Statement
Protofluor Reagent	Acute toxicity (Category 2)	Poison

**Label elements:**

**Signal word:** Danger! Poison!

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**Precautionary statements:**

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

**Eye:** May cause eye irritation.

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

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

Wear protective gloves/protective clothing/eye and face protection.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	Chemical Name	CAS #	Concentration
Protofluor Reagent	Potassium Cyanide	151-50-8	1.1%

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**4. FIRST AID MEASURES****Description of first aid measures:**

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention immediately.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention immediately.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

**Ingestion:** If swallowed, do not induce vomiting. Rinse mouth with water. Get medical attention immediately.

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**5. FIREFIGHTING MEASURES**

**Extinguishing media:** Use any means suitable for extinguishing surrounding fire. Not considered to be fire or explosion hazard.

**Special hazards arising from the substance or mixture:** Carbon oxide, nitrogen oxides, potassium oxides.

**Special protective equipment and precautions for firefighters:** Wear self contained breathing apparatus for firefighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear suitable protective clothing. Ensure adequate ventilation.

**Methods and materials for containment and cleaning up:** Absorb with an inert dry material and place in appropriate waste disposal container.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Wear suitable protective equipment. Avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed, in a cool area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure controls:**

**Skin protection:** Wear suitable protective clothing and chemical resistant gloves.

**Eye protection:** Wear appropriate safety glasses or goggles.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear colorless liquid

**Odor:** No data available

**Odor threshold:** No data available

**pH:** No data available

**Melting point/Freezing point:** No data available

**Initial boiling point and range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Relative density:** No data available

**Solubility in water:** Fully soluble

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

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## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage condition.

**Possibility of hazard reaction:** Hazardous polymerization does not occur.

**Conditions to avoid:** Heating.

**Incompatible materials:** Strong oxidizers, acids, peroxides.

**Hazard decomposition products:** Can emit deadly Hydrogen Cyanide and Nitric Oxide vapors when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

### Toxicological data:

The calculated ATE value LD50 oral = 556 mg/kg

See the following table for individual ingredient acute toxicity data

Chemical Name	LD 50 (oral, rat)
Potassium Cyanide	6 mg/kg

### Potential health effects:

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

**Eye:** May cause eye irritation.

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

**Ingestion:** May be fatal if swallowed

**Carcinogenicity:** Not listed as carcinogens by AGGIH, IARC, NTP or OSHA.

**Other important toxicological hazards:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

**Eco-toxicity:** No data available

**Persistence and degradability:** No data available

**Bio-accumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

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## 13. DISPOSAL CONSIDERATION

Observe all federal, state and local regulations.

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## 14. TRANSPORT INFORMATION

**DOT (US):** Regulated as hazardous material during transportation.

**UN number:**

**UN proper shipping name:**

**Transport hazard class:**

**Packing group:**

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## 15. REGULATORY INFORMATION

### California Proposition 65:

Protofluor Reagent: This product can expose you to Potassium Cyanide, which is known to the State of California to cause male developmental harm.

For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

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**16. OTHER INFORMATION**

**SDS Creation date:** 9/14/2015

**Revision #:** 6

**Disclaimer**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Helena Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.