

SAFETY DATA SHEET

HELENA LABORATORIES
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DATE PREPARED: 2/1/2024
REVISION: 5

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!

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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.

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.

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.

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.

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.

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

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.

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.

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

13. DISPOSAL CONSIDERATION

Observe all federal, state and local regulations.

14. TRANSPORT INFORMATION

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

UN number:

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

SDS Creation date: 9/14/2015

Revision #: 5

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.