



ARBOR  
ASSAYS

# Safety Data Sheet

Revision Date: 2 March 2025

## Product Name: DetectX<sup>®</sup> Hydrogen Peroxide Fluorescent Detection Kit

### Section 1: Identification

**Product Name:** DetectX<sup>®</sup> Hydrogen Peroxide Fluorescent Detection Kit  
**Also known as:** Catalog Number K034-F1  
**Manufacturer / Supplier:** Arbor Assays  
1143 Highland Dr, Ste A  
Ann Arbor, MI 48108-5001 Telephone 734-677-1774 (U.S.)  
U.S.A.  
**Recommended Use:** For Research Use Only

### Section 2: Hazard(s) Identification

**Classification:** Regulation (EC) No. 1272/2008 [CLP/GHS]

Hydrogen Peroxide: Skin Corr., Class 1B  
Eye Damage, Class 1



Hazard statements: Causes severe skin burns.  
Causes serious eye damage.

Precautionary statements: Wash hands thoroughly after handling.  
Wear protective gloves, clothing, and eye/face protection.

### Section 3: Information on Ingredients

**Components:** Hydrogen Peroxide Standard (C117-220UL)  
Fluorescent Detection Reagent (C116-5ML)  
Horseradish Peroxidase Concentrate (X107-60UL)  
Assay Buffer Concentrate (X106-25ML)

**Description:** Hydrogen Peroxide Standard, C117, contains:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>
Hydrogen Peroxide	7722-84-1	< 0.001%

Additional components of the kit are non-hazardous or the specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

**Section 4: First-Aid Measures**

Inhalation	If inhaled, remove to fresh air.
Skin Contact	Rinse with copious amounts of water and wash thoroughly with soap and water.
Eye Contact	Rinse eyes with running water, checking for and removing contact lenses. Assure adequate flushing by separating the eyelids with fingers and seek medical attention.
Ingestion	If swallowed, wash out mouth with water if person is conscious.

**Section 5: Fire-Fighting Measures**

Extinguishing Media	Suitable: Water spray. Carbon Dioxide, dry chemical, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental Release Measures**

Cleanup Procedures	Wear appropriate protective clothing. Avoid breathing vapors, mist or gas. Contain spill to prevent migration. Wipe up spill, place in suitable, closed container for appropriate disposal. Wash area of spill with soap and water.
Waste Disposal	Dispose of in accordance with federal, state, and local regulations.

**Section 7: Handling and Storage**

Handling	Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.
Storage	Store according to the package insert instructions.

**Section 8: Exposure Controls / Personal Protection**

Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.

### Section 9: Physical and Chemical Properties

<u>Characteristic</u>	Hydrogen Peroxide Stnd, C117 (Hydrogen Peroxide, < 0.001%)
Appearance	Clear, colorless liquid
Odor	Odorless
Boiling Point	212°F
Melting Point	N/A
Density	1.1
Vapor Pressure	23 mmHg
Solubility in Water	Complete
pH	N/A

### Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed.
Hazardous	Oxygen, which supports combustion.
Decomposition Products	
Incompatibilities	Reducing agents, combustible materials.

### Section 11: Toxicological Information

<u>Route of Exposure</u>	
Skin Contact	May cause skin irritation. Skin LD50, mg/kg: 2,000.00, Rat - Category:4
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be harmful if inhaled. May be irritating to respiratory tract. Vapor LD50, mg/L/4hr: 2.00, Rat - Category:2 Dust/Mist LD50, mg/L/4hr: No data available Gas LD50, ppm: No data available
Ingestion	May be harmful if swallowed. Oral LD50, mg/kg: 801.00, Rat - Category:4
<u>Symptoms of Exposure</u>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Section 12: Ecological Information

96hr LC50 fish, mg/L: 22.00, <i>Oncorhynchus mykiss</i>
48hr EC50 crustacea, mg/L: 2.32, <i>Daphnia magna</i>
ErC50 algae, mg/L: 0.71 (72hr), <i>Microcystis pulverea</i> ssp. <i>incerta</i>
Other adverse effects: No data available.

### Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.
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**Section 14: Transport Information**U.S. and Canadian Transportation; DOT

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	N/A
Hazard Label	Class 9

International Air Transportation (IATA)

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	III
Hazard Label	Class 9

**Section 15: Regulatory Information**Product related information

The product is not subject to classification according to the sources of literature known to us.

Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

U.S. Regulatory Information

SARA Listed: No materials contained in this product are subject to SARA 313 Reporting.

**Section 16: Other Information**

**Disclaimer:** For Research Use Only. Not for diagnostic, therapeutic, or other uses.

**Further Information:** The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. Arbor Assays shall not be held liable for any damage resulting from use or handling of this product.