



ARBOR
ASSAYS

Safety Data Sheet

Revision Date: 2 March 2025

Product Name: DetectX[®] Catalase Fluorescent Activity Kit

Section 1: Identification

Product Name: DetectX[®] Catalase Fluorescent Activity Kit
Also known as: Catalog Number K033-F1
Manufacturer Arbor Assays
/ Supplier 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: Catalase Standard (C114-90UL)
Fluorescent Detection Reagent (C116-5ML)
Hydrogen Peroxide Reagent (C115-5ML)
Horseradish Peroxidase Concentrate (X107-60UL)
Assay Buffer Concentrate (X106-25ML)

Description: Hydrogen Peroxide Reagent, C115-5ML, 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

| Characteristic | Hydrogen Peroxide Reagent, C115 (Hydrogen Peroxide, <u><u>0.001%</u></u>) |
|---------------------|---|
| 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 Decomposition Products | Oxygen, which supports combustion. |
| 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, *Oncorhynchus mykiss*
 48hr EC50 crustacea, mg/L: 2.32, *Daphnia magna*
 ErC50 algae, mg/L: 0.71 (72hr), *Microcystis pulverea* ssp. *incerta*
 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.

Section 14: Transport InformationU.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 InformationProduct 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. ArborAssays shall not be held liable for any damage resulting from use or handling of this product.