



MATERIAL SAFETY DATA SHEET

Catalase (CAT) Colorimetric Activity kit

SECTION 1. IDENTIFICATION

Product name	Catalase (CAT) Colorimetric Activity kit
Catalogue number	ZX-44102-96
Manufacturer or supplier's details	ZellBio GmbH . Krantorweg 48c . 13503 Berlin
Telephone	0049-30 81309085
Fax	0049-30 81309086
Email	support@zellx.de

SECTION 2. HAZARDS IDENTIFICATION



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

Hydrogen Peroxide

Hazard statements

Precautionary statements

Skin Corr., Class 1B
Eye Damage, Class 1

Causes severe skin burns.
Causes serious eye damage.

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

SECTION 3. FIRST AID MEASURES

General advice

If inhaled

In case of skin contact

In case of eye contact

Show this material safety data sheet to the doctor in attendance.

If inhaled, remove to fresh air

Rinse with copious amounts of water and wash thoroughly with soap and water.

Rinse eyes with running water, checking for and removing contact lenses. Assure adequate flushing by separating the eyelids with fingers and seek medical attention.

If swallowed

If swallowed, wash out mouth with water if person is conscious.

SECTION 4. INFORMATION ON INGREDIENTS

Components:

Catalase Standard (C114-90UL)
Substrate (C129-5ML)
Hydrogen Peroxide Reagent (C132-5ML)
Horseradish Peroxidase Concentrate (X113-120UL)
Assay Buffer Concentrate (X106-25ML)

Description:	Chemical Name	CAS No	Percent
Hydrogen Peroxide Reagent, C132-5ML, contains:	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.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water spray. Carbon Dioxide, dry chemical powder, 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

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Environmental precautions

Discharge into drains should be avoided.

SECTION 7. HANDLING AND STORAGE

Handling

Avoid getting components of this kit on you or in you. Do not breathe vapor.
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, lab coat should be worn to prevent skin contact.

SECTION 9. STABILITY AND REACTIVITY

Stability
Materials to Avoid
Decomposition Products
Incompatibilities

This material is stable until the expiration date on the kit if stored as directed.
Oxygen, which supports combustion.

Reducing agents, combustible materials.

SECTION 10. TOXICOLOGICAL INFORMATION

Route of Exposure

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

Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 11. 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 12. DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance

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 13. 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 14. REGULATORY INFORMATION

Product related information

Safety Statements

The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.

Risk Statements

U.S. Regulatory Information

Avoid release to the environment.
Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Sara Listed: No

SECTION 15. OTHER INFORMATION

Department

Last Revision

Disclaimer:

R&D - ZELLX project - ZellBio GmbH
08.12.2019
For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Other 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. ZELLX® shall not be held liable for any damage resulting from use or handling of this product.

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