

Glutathione (GSH) Colorimetric Detection kit

SECTION 1. IDENTIFICATION

Product name	
Catalogue number	
Manufacturer or supplier's detail	s
Telephone	
Fax	
Email	

Glutathione (GSH) Colorimetric Detection kit ZX-44100-96 ZellBio GmbH . Krantorweg 48c . 13503 Berlin 0049-30 81309085 0049-30 81309086 support@zellx.de

SECTION 2. HAZARDS IDENTIFICATION



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

Dimethyl sulfoxide

Hazard statements

Precautionary statements

Flammable, Category 4 Irritant, Class 2

Combustible liquid. May be harmful if inhaled, absorbed through skin, swallowed. May be irritating to eyes, respiratory system and skin. Harmful to aquatic organisms.

Keep away from heat, open flames, hot surfaces, sparks. Wash hands thoroughly after handling. Wear protective gloves, clothing, and eye/face protection.

SECTION 3. FIRST AID MEASURES

General advice

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

If inhaled

If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.

In case of skin contact

In case of eye contact If swallowed Rinse with copious amounts of water and wash thoroughly with soap and water. If irritation or discomfort develops seek medical attention.

Rinse eyes with water as a precaution.

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

SECTION 4. INFORMATION ON INGREDIENTS

Components:

Oxidized Glutathione Standard (C020-200UL) Colorimetric Detection Reagent (X041-1ML) NADPH (X043-1ML) Glutathione Reductase (X048-1ML) Assay Buffer (X040-225ML)

Description:	Chemical Name	CAS No	Percent
X041-1ML, contains:	Dimethyl sulfoxide	67-68-5	100%

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.

ZX-44100-96

SECTION 5. FIRE-FIGHTING MEASURES

Extina	uishing	Media

Firefighting

Suitable: Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam. 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 Methods and materials for containment and cleaning up Environmental precautions Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Keep in suitable, closed containers for disposal. 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	This material is stable until the expiration date on the kit if stored as directed. Heat, flames, sparks. Moisture.			
Incompatibilities	Strong oxidizing or reducing agents, acid chlorides, phosphorus halides, strong acids.			
SECTION 10	. TOXICOLOGICAL INFORMATION			
	 Skin Contact: May cause skin irritation. 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. 			
Route of Exposure	Ingestion: Harmful if swallowed.			
Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.			
SECTION 1	1. ECOLOGICAL INFORMATION			
Toxicity	Fish: LC50 – Pimephales promelas (fathead minnow) – 34g/L, 96h LC50 – Oncorhynchus mykiss (rainbow trout) – 35g/L, 96h Aquatic invertebrates: ED50 – Daphnia magna (water flea) – 26 g/L, 48h Algae: ED50 – Pseudokirchneriella subcapitata (green algae) – 17g/L, 72h			

Persistence / degradability Bioaccumulative potential: Mobility in soil Results of PBT/vPvB assessment Other adverse effects Stability in water 31% - According to results of test of biodegradability this productis not readily biodegradable (OECD Test Guidline 301D).
No data available.
No data available.
No data available.
No data available.
-0.12 - 1.2h at 30°C, Hydrolyses readily.

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 Proper Shipping Name: Chemical Kits UN Identification Number: 3316		
	Class and Description: 9, Miscellaneous		
	Packing Group: III Hazard		
International Air Transportation (IATA)	Label Class: 9		
SECTION 14. 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.		
U.S. Regulatory Information	Sara Listed: No		
SECTION 15. OTHER INFORMATION			

R&D - ZELLX project - ZellBio GmbH

Last Revision Disclaimer:

Other Information

09.12.2019

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

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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