



# Safety Data Sheet

Version: 1.0

Revision Date: 17 October 2016

## Section 1: Product and Company Identification

Product Name **DetectX® Glutathione Colorimetric Cuvette Detection Kit**  
Catalog Number **K006-H1C-L and K006-H1C-H**

Company Arbor Assays  
1514 Eisenhower Place  
Ann Arbor, MI 48108-3284  
USA

Telephone 734-677-1774  
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## Section 2: Hazards Identification

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

Dimethylsulfoxide: Flammable Liquid, Class 4  
Eye Irritant, Class 2  
Skin Irritant, Class 2



Hazard statements: Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.  
Causes respiratory irritation.  
Harmful to aquatic organisms.

Precautionary statements: Keep away from heat/sparks/sources of ignition.  
Wash hands thoroughly after handling.  
Wear protective gloves, clothing, and eye/face protection.

## Section 3: 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: Colorimetric Detection Reagent (X041-1ml), contains:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>
Dimethylsulfoxide	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.

**Section 4: First Aid Measures**

Inhalation If inhaled, remove to fresh air.

Skin Contact Wash thoroughly with soap and water.

Eye Contact Rinse eyes with water as a precaution.

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

**Section 5: Fire Fighting Measures**

Flash Point 87°C (189°F) – closed cup

Explosion Limits N/A

Auto-ignition Temp 301°C (574°F)

Flammability N/A

Extinguishing Media Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical.

Firefighting Protective Equipment: Wear self-contained breathing apparatus if necessary.

**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 and 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**

	Dry DMSO X022-4ML (Dimethyl sulfoxide, 100%)
<u>Characteristic</u>	
Appearance	Clear, colorless liquid
Odor	Slight
Boiling Point	189°C (372°F) at 1,013 hPa (760 mmHg)
Melting Point	18.4°C (65.1°F)
Flash Point	87°C (189°F) – closed cup
Ignition temperature	301°C (574°F)
Density	1.1 g/cm <sup>3</sup>
Vapor Pressure	0.55 hPa (0.41 mmHg) at 20°C (68°F)
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.
Conditions to Avoid	Moisture.
Incompatibles	Strong oxidizing or reducing agents, acid chlorides, phosphorus halides, strong acids.

**Section 11: Toxicological Information**

<u>Route of Exposure</u>	
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.
Ingestion	May be harmful if swallowed.
<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**

No data is 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 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, none of the materials contained in this product are subject to SARA 313 Reporting requirements.

**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.