Safety Data Sheet



Revision Date: 10 March 2023

Product Name: DetectX[®] Glutathione S-Transferase Fluorescent Activity Kit

Section 1: Identification			
Product Name:	DetectX [®] Glutathione S-Transferase Fluorescent Activity Kit		
Manufacturer	Catalog Numbers K008-F1 or GST Activity Kit		
Recommended Use	For Research Use Only		

Section 2: Hazard(s) Identification		
Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]		
Dimethyl sulfoxide:	Flammable, Category 4 Irritant, Class 2	
Hazard statements:	Combustible liquid.	
	May be harmful if inhaled, absorbed through skin, swallowed. May be irritating to eyes, respiratory system and skin.	
	Harmful to aquatic organisms.	
	May cause long-term adverse effects in aquatic environment.	
Precautionary statements: Keep away from heat, open flames, hot surfaces, sparks.		
Wash hands thoroughly after handling. Wear protective gloves, clothing, and eye/face protection.		

Section 3: Information on Ingredients

Components: Glutathione S-Transferase Standard (C026-50UL) GST Detection Reagent (C035-1EA) Glutathione (C028-300UL)		
Description:	Dry DMSO (X022-2ML) Assay Buffer (X033-45ML) DMSO, X022-2ML, contains:	
	<u>Chemical Name</u> <u>CAS No.</u> <u>Percent</u> 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.		

Section 4: First-Aid Measures			
Inhalation	If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.		
Skin Contact	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 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

Cleanup Procedures	Wear appropriate protective clothing. Avoid breathing vapors, mist or
	gas. Ventilate area. Contain spill to prevent migration. Wipe up spill,
	place in sealed container for 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. 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 and a lab coat should be worn to prevent skin contact.

Section 9: Physical and Chemical Properties		
	Dry DMSO, X022-2ML	
Characteristic	(Dimethyl sulfoxide, 100%)	
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/cm3	
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.	
	Heat, flames, sparks. Moisture. Strong oxidizing or reducing agents, acid chlorides, phosphorus halides, strong acids.	

Section 11: Toxicological Information		
Route of Exposure		
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	Harmful if swallowed.	
Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and	
	toxicological properties have not been thoroughly investigated.	

Section 12: Ecological Information		
<u>Toxicity:</u>		
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 /	31% - According to results of test of biodegradability this product is	
degradability:	not readily biodegradable (OECD Test Guidline 301D).	
Bioaccumulative	No data available.	
potential:		
Mobility in soil:	No data available.	
Results of PBT/vPvB	No data available.	
assessment:		
Other adverse effects:	No data available.	
Stability in water:	-0.12 – 1.2h at 30°C, Hydrolyses readily.	

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	1993	
Class and Description	9, Miscellaneous	
Packing Group	III	
Hazard Label	Class 9	
International Air Transportation (IATA)		
Proper Shipping Name	Chemical Kits	
UN Identification Number	1993	
Class and Description	9, Miscellaneous	
Packing Group	111	
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.

- U.S. Regulatory Information
 - Sara Listed: No.

Section 16: Other Information

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

Further 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.