

Safety Data Sheet

Revision Date: 2 March 2025

Product Name: DetectX® Urea Nitrogen Colorimetric Detection Kit

Section 1: Identification

Product Name: DetectX[®] Urea Nitrogen Colorimetric Detection Kit

Also known as: Catalog Numbers K024-H1, K024-H5, or BUN Detection Kit

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]

Sulfuric Acid: Skin Corrosion, Category 1B

Serious Eye Damage, Category 1 Target Organ Toxicity, Category 3

Hazard statements: Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements: Wash hands thoroughly after handling.

Wear protective gloves, clothing, and eye/face protection.

Do not breathe vapors.

Section 3: Information on Ingredients

Components: Urea Nitrate Standard (C089-250UL, C089-1ML)

Color Reagent A (X094-15ML, X094-38ML 2 each) Color Reagent B (X095-15ML, X095-38ML 2 each)

Description: Color Reagent A, X094, and Color Reagent B, X095, contain:

<u>Chemical Name</u> <u>CAS No.</u> <u>Percent</u> Sulfuric Acid 7664-93-9 < 20.0%

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

for 15 minutes. Remove contaminated clothing and shoes. If irritation or

discomfort develops, seek medical attention.

Eye Contact Rinse eyes with running water, checking for and removing contact lenses.

Continue for at least 15 minutes. Assure adequate flushing by separating the

eyelids with fingers. Seek medical attention.

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

attention.

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.

Specific Hazard(s): Emits toxic fumes under fires conditions.

Section 6: Accidental Release Measures

Cleanup Procedures Wear appropriate protective clothing. Ventilate area. Contain spill to

prevent migration. Absorb on sand or vermiculite, 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

Color Reagent A, X094, Color Reagent B, X095,

(Sulfuric Acid, < 20.0%)
Appearance Clear, colorless liquid

Odor Pungent
Boiling Point 100°C

Melting Point 0°C

Density Essentially the same as water Vapor Pressure Essentially the same as water

Solubility in Water Complete pH < 1.0

Section 10: Stability and Reactivity

Stability This material is stable until the expiration date on the kit if stored as

directed.

Hazardous Sulfur oxides and hydrogen.

Decomposition Products

Incompatibilities Materials such as common metals, strong bases, cyanides, acetone,

and nitric acid.

Section 11: Toxicological Information

Route of Exposure

Skin Contact May cause skin irritation and/or burns. Oral LD50-rat 2140 mg/kg.

Skin Absorption May be harmful if absorbed through the skin.

Eye Contact May cause eye irritation.

Inhalation May be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled. Inhalation LC50-rat 510 mg/L/2H.

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

LC50 Freshwater Fish- 42 mg/L/96H; EC50 Water Flea- 29 mg/L/24H.

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 2796

Class and Description 8, Miscellaneous

Packing Group N/A

Hazard Label Class 8

International Air Transportation (IATA)

Proper Shipping Name Chemical Kits

UN Identification Number 2796

Class and Description 8, Miscellaneous

Packing Group II Hazard Label Class 8

Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to

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: Yes. (Sulfuric Acid; X094, X095).

Section 16: Other Information

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

Information:

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.