

SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Glucose Assay Kit (Colorimetric) (#BA0041)

Relevant Identified Uses of Substance or Mixture and Uses Advised Against:

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

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Section 2: Hazard(s) Identification

GHS Classification

Acute toxicity, Oral (Category 4), H302

Carcinogenicity (Category 2), H351

Reproductive toxicity (Category 2), H361

Chronic aquatic toxicity (Category 2), H411

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Warning

Hazard statements

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves/clothing and eye/face protection.

P281: Use personal protective equipment as required.

P304 + P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P311: Call a poison center or doctor/ physician.

Section 3: Composition/ Information on Ingredients

Component Name	CAS Number
Reagent: 50 mL liquid. Contains 94% acetic acid, 1-6% o-toluidine and 0.01-0.3% thiourea	CAS #: 64-19-7; CAS #: 95-53-4; CAS #: 62-56-6
Standard: 1 mL liquid. Non-hazardous.	

Section 4: First-Aid Measures

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

Inhalation: Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion: Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

Section 5: Fire-Fighting Measures

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Vapor protective clothing should be worn for spills and leaks. Shut off ignition sources; no flares, smoking or flames in hazard area. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

Section 7: Handling and Storage

Keep receptacles tightly sealed and store according to the instructions in the assay protocol.

Section 8: Exposure Controls/Personal Protection

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves,

NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

Section 9: Physical and Chemical Properties

Refer to Section 3. Composition/Information on Ingredients.

Section 10: Stability and Reactivity

Thermal Decomposition: no decomposition if used according to specifications.

Dangerous Products of Decomposition: nitrogen and sulfur oxides.

Dangerous Reactions: none.

Section 11: Toxicological Information

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

o-Toluidine: Oral LD50 rat, 670 mg/kg; Inhalation LC50 rat 4h, 862 ppm; Dermal LD50 rabbit, 3,244 mg/kg.

Acetic acid: Oral LD50 rat, 3,310 mg/kg; Inhalation LC50 mouse 1h, 5,620 ppm; Dermal LD50 rabbit, 1,112 mg/kg.

Thiourea: Oral LD50 rat, 1,750 mg/kg; Inhalation LC50, no data available; Dermal LD50 rabbit, 2,800 mg/kg.

Section 12: Ecological Information

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Section 13: Disposal Considerations

Dispose in accordance with local, state or national regulations.

Section 14: Transport Information

Proper Shipping Name: Acetic acid, aqueous solution with 94% acetic acid.

DOT (US) – UN2789; Class: 8; Packing group: II.

IMDG – UN2789; Class: 8; Packing group: II. Marine pollutant: Yes.

IATA – UN2789; Class: 8; Packing group: II.

Additional Transport Information: transport in accordance with local, state and national regulations.

Section 15: Regulatory Information

OSHA Hazards: Target Organ Effect, Corrosive, Carcinogen

SARA 311/312 Hazards: acute health hazard, chronic health hazard

Section 16: Other Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

Last reviewed: 07/2026

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End Of MSDS