SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Boron Assay Kit (#BA0212)

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

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

Assay Genie

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For information about this SDS, please contact: techsupport@assaygenie.com

Section 2: Hazard(s) Identification

GHS Classification

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements

Pictogram:

Signal word: Warning

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

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

P302 + P352: If on skin: Wash with plenty of soap and water.

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.

P312 Call a doctor/ physician if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/ attention.

Section 3: Composition/ Information on Ingredients

Component Name	CAS Number
Reagent A: 250 mg Powder — Contains 5-25% Azomethine-H	CAS #: 206752-32-1
Reagent B: 20 mL Liquid — Contains 1-20% Ammonium Acetate (CAS #: 631-61-8) and 1-10% Acetic Acid	CAS #: 631-61-8 (Ammonium Acetate); CAS #: 56 64-19-7 (Acetic Acid)
Standard: 150 µL Liquid — Contains 0.05% Boric Acid	CAS #: 10043-35-3

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: 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.

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.

Azomethine-H - Acute toxicity, no data available; Inhalation: no data available; Dermal: no data available; Skin corrosion/irritation: no data available, Serious eye damage/eye irritation; no data available.

Ammonium Acetate - Acute toxicity: No data available; Inhalation: No data available; Dermal: No data available. Skin corrosion/irritation: No data available; Serious eye damage/eye irritation: No data available.

Acetic Acid - Acute toxicity LD50 Oral rat: 3,310 mg/kg; Inhalation mouse: 1h 5620 ppm; Dermal rabbit: 1,112 mg/kg; Skin corrosion/irritation: Causes severe burns; Serious eye damage/eye irritation: Corrosive to eyes.

Boric Acid - Acute toxicity LD50 Oral rat: 3,450 mg/kg; Inhalation rat: 4h >2.12mg/L; Dermal rabbit: >2,000 mg/kg; Skin corrosion/irritation rabbit: No skin irritation-24 h; Serious eye damage/eye irritation rabbit: No eye irritation-24 h.

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

DOT (US) - Not dangerous goods.

IMDG - Not dangerous goods.

IATA - Not dangerous goods.

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

Section 15: Regulatory Information

OSHA Hazards: Target Organ Effect.

SARA 311/312 Hazards: Chronic Health Hazard.

Section 16: Other Information

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