

Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: MET-5121
Product Name: Calcium, Assay Kit
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

Assay Buffer (Part No. 51212B): One 13 mL bottle.

Classification:

Acute toxicity, Oral, Category 4 (H302)
Skin irritation, Category 2 (H315)
Serious eye damage, Category 1 (H318)
Carcinogenicity, Category 2, (H351)
Specific target organ toxicity - repeated exposure, Oral, Category 2 (H373)
Acute aquatic toxicity, Category 3, (H402)
Chronic aquatic toxicity, Category 3 (H412)


Pictogram	
Signal Word	Danger
<p>Hazard Statements: Harmful if swallowed (H302), Causes skin irritation (H315), Causes serious eye damage (H318), Suspected of causing cancer (H351), May cause damage to organs through prolonged or repeated exposure (H373), Harmful to aquatic life with long lasting effects (H412).</p>	
<p>Precautionary Statements: Do not handle until all safety precautions have been read and understood (P202), Do not breathe dust/fume/gas/mist/vapors/spray (P260), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER / doctor if you feel unwell. Rinse mouth (P301 + P312 +</p>	

P330), IF ON SKIN: wash with plenty of soap and water. (P302 + P352), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER / doctor (P305 + P351 + P338 + P310), IF exposed or concerned: Get medical advice/attention (P308 + P313), If skin irritation occurs: Get medical advice/attention (P332 + P313), Take off contaminated clothing and wash before reuse (P362), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Colorimetric Probe (Part No. 51213B): One 25 mL bottle.

Classification:

Acute toxicity, Oral Category 4 (H302)
Acute aquatic toxicity, Category 3 (H402)

Pictogram	
Signal Word	Warning
Hazard Statements: Harmful if swallowed (H302) Harmful to aquatic life (H402).	
Precautionary Statements: Wash skin thoroughly after handling (P264), Do not eat, drink or smoke when using this product (P270). Avoid release to the environment (P273). IF SWALLOWED: call a POISON CENTER / doctor if you feel unwell. Rinse mouth (P301 + P312 + P330)	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Assay Buffer (Part No. 51212B): One 13 mL bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Diethanolamine	< 4 M	111-42-2

Colorimetric Probe (Part No. 51213B): One 13 mL bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Reagent A	< 20 mM	

SECTION 4. FIRST-AID MEASURES

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IF INHALED, REMOVE TO FRESH AIR. IF NOT

BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO₂
- Special protective equipment: Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Evacuate area
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 7. SAFETY HANDLING AND STORAGE

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.
- Personal protective equipment: Face shield or safety glasses, gloves, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form: liquid
- Odor: no data available
- pH: no data available
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: no data available

- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

SECTION 10. STABILITY AND REACTIVITY

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials: no data available
- Decomposition products: no data available

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute toxicity
 - Diethanolamine: LD50 oral 710 mg/kg (rat); LD50 dermal 12.200 mg/kg (rabbit); LD50 intraperitoneal 120 mg/kg (rat); LD50 intravenous 778 mg/kg (rat).
- Skin corrosion/irritation
 - Diethanolamine: mild skin irritation 24h (rabbit)
- Serious eye damage/irritation
 - Diethanolamine: Severe eye irritation 24h (rabbit)
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
 - Diethanolamine: Toxicity to fish: mortality NOEC 540 mg/l 96h (Cyprinodon variegates), LC50 1.460 mg/l 96h (Pimephales promelas); Toxicity to daphnia and other aquatic invertebrates: mortality NOEC <4,2 mg/l 11d (Daphnia magna), EC50 55mg/l 48h (Daphnia magna).
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.

SECTION 14. TRANSPORT INFORMATION- IATA

- Not Hazardous



SECTION 15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available
- Chemical safety assessment: no data available

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

Revised 08/21/2023