CELL BIOLABS, INC.
Creating Solutions for Life Science Research

Safety Data Sheet

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

Catalog Number: MET-5086
Product Name: Ammonia Assay Kit (Colorimetric)
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

Assay Reagent A (Part No. 50862B): One 8 mL amber bottle.

Classification:
Acutate toxicity, Category 3 (H301)
Eye irritation, Category 2A (H319)

Pictogram	
Signal Word	Danger
Hazard Statements: Toxic if swallowed (H301), Causes serious eye irritation (H319).	
Precautionary Statements: Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: Immediately call a POISON CENTER / doctor. Rinse mouth (P301 + P310 + P330), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical advice/attention (P337 + P313), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).	

Assay Reagent B (Part No. 50863B): One 8 mL amber bottle.

Classification:
Corrosive to metals, Category 1 (H290)
Skin corrosion, Category 1A (H314)

Serious eye damage, Category 1 (H318)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 1 (H410)

Pictogram	
Signal Word	Danger

Hazard Statements: May be corrosive to metals (H290), Causes severe skin burns and eye damage (H314), Causes serious eye damage, (H318), Very toxic to aquatic life with long lasting effects (H410).

Precautionary Statements: Keep only in origianl container (P234), Do not breathe dust/fume/gas/mist/vapors/spray (P260), Wash skin thoroughly after handling (P264), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting (P301 + P330 + P331), IF ON SKIN (or hair): take off immediately all contaminated clothing Rinse skin with water/shower (P303 + P361 + P353), IF INHALED: remove person to fresh air and keep comforable for breathing. Immediately call a POISON CENTER / doctor (P304 + P340 + P310), 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), Wash contaminated clothing before reuse (P363), Absorb spillage to prevent material damage (P390), Collect spillage (P391), Store locked up (P405), Store in corrosive resistant stainless steel container with a resistant inner liner (P406), Dispose of contents/container to an approved waste disposal plant (P501).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Assay Reagent A (Part No. 50862B): One 8 mL amber bottle.

CHEMICAL NAME	CONCENTRATION	CAS #
Sodium Salicylate	**<200 mM**	**54-21-7**
Sodium Nitroprusside Dihydrate	**< 5 mM**	**13755-38-9**
Sodium Hydroxide	**< 1N**	**1310-73-2**

Assay Reagent B (Part No. 50863B): One 4 mL bottle

CHEMICAL NAME	CONCENTRATION	CAS #
Sodium Hydroxide	**< 2N**	**1310-73-2**
Sodium Hypochlorite	**<0.5%**	**7681-52-9**

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
    - Sodium Salicylate: LD50 Oral 930 mg/kg (rat), LD50 Oral 540 mg/kg (mouse), LD50 Oral 1.700 mg/kg (rabbit), LD50 Intraperitoneal 542 mg/kg (rat), LD50 Intrapmuscular 760 mg/kg (mouse), LD50 Intraperitoneal 500 mg/kg (mouse), LD50 Intravenous 500 mg/kg (mouse), LD50 Subcutaneous 550 mg/kg (mouse), LD50 Intravenous 415 mg/kg (rabbit), LD50 Intravenous 562 mg/kg (dog)
    - Sodium Nitroprusside Dihydrate: LD50 Oral 99 mg/kg (rat)
    - Sodium Hydroxide: no data available
    - Sodium Hypochlorite: no data available
- Skin corrosion/irritation
    - Sodium Salicylate: no data available
    - Sodium Nitroprusside Dihydrate: no data available
    - Sodium Hydroxide: Causes sever burns 24h (rabbit)
    - Sodium Hypochlorite: no data available
- Serious eye damage/irritation
    - Sodium Salicylate: no data available
    - Sodium Nitroprusside Dihydrate: no data available
    - Sodium Hydroxide: Eyes corrosive 24h (rabbit)
    - Sodium Hypochlorite: no data available
- Respiratory or skin sensitization
    - Sodium Salicylate: no data available
    - Sodium Nitroprusside Dihydrate: no data available
    - Sodium Hydroxide: Eyes corrosive 24h (rabbit)
    - Sodium Hypochlorite: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available

- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
  - Sodium Salicylate: Toxicity to fish: LC50 1.370 mg/L 96h (Pimephales promelas)
  - Sodium Nitroprusside Dihydrate: no data available
  - Sodium Hydroxide: LC50 125 mg/L in 96 hrs (mosquito fish); EC50 40.38 mg/L in 48 hrs (water flea)
  - Sodium Hypochlorite: no data available
- 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

Assay Reagent A

- Hazard Class: 6.1
- Subsidiary Class: none
- Packing Group: III
- UN-No: UN3288

- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN1824

Assay Reagent B

- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN1824

- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: III
- UN-No: UN1791

NOTE: THIS PRODUCT IS SHIPPED AS "DANGEROUS GOODS IN EXCEPTED QUANTITIES" UNDER IATA REGULATION 2.6.2.2.

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).

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