

Safety Data Sheet

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

Catalog Number: MET-5086
Product Name: Ammonia Assay Kit
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:

Acute 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:

Acute 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).	

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

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 Intramuscular 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
- Skin corrosion/irritation
 - Sodium Salicylate: no data available
 - Sodium Nitroprusside Dihydrate: no data available
 - Sodium hydroxide: Causes severe burns 24h (rabbit)
- Serious eye damage/irritation
 - Sodium Salicylate: no data available
 - Sodium Nitroprusside Dihydrate: no data available
 - Sodium hydroxide: Eyes corrosive 24h (rabbit)
- Respiratory or skin sensitization
 - Sodium Salicylate: no data available
 - Sodium Nitroprusside Dihydrate: no data available
 - Sodium hydroxide: Eyes corrosive 24h (rabbit)
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available

- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

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

DOT

Assay Reagent A

- Hazard Class: 6.1
- Packing Group: III
- UN-No: UN3288
- Poison Inhalation Hazard: No

- Hazard Class: 8
- Packing Group: II
- UN-No: UN1824
- Poison Inhalation Hazard: No

Developing Reagent

- Hazard Class: 8
- Packing Group: II
- UN-No: UN1824
- Poison Inhalation Hazard: No

- Hazard Class: 8
- Packing Group: III
- UN-No: UN1791
- Poison Inhalation Hazard: No

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

Developing Reagent

- 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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