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: STA-675
Product Name: Hydroxyproline Assay Kit
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

Chloramine T Reagent (Part No. 267503): One 600 µL vial

Classification:
Skin corrosion, Category 1B (H314)
Serious eye damage/eye irritation, Category 1 (H318)
Respiratory sensitization, Category 1 (H334)
Acute aquatic toxicity, Category 2 (H401)
Chronic aquatic toxicity, Category 2 (H411)

Pictogram	
Signal Word	Danger
Hazard Statements: Causes severe skin burns and eye damage (H314), May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334), Toxic to aquatic life with long lasting effects (H411).	
Precautionary Statements: Do not breathe dust or mist (P260), Wash skin thoroughly after handling (P264), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), In case of inadequate ventilation wear repiratory protection (P285), 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 victim to fresh air and keep at rest in a position comfortable for breathing (P304 + P340), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338), Immediately call a POISON CENTER or doctor/physician (P310), Wash contaminated clothing before reuse (P363), Collect spillage (P391), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Ehrlich's Diluent (Part No. 267505): One 6 mL bottle

Classification:
Flammable liquids, Category 2 (H225)
Oxidizing liquids, Category 1 (H271)
Corrosive to metals, Category 1 (H290)
Acute toxicity, Oral, Category 4 (H302)
Skin corrosion, Category 1B (H314)
Serious eye damage, Category 1 (H318)
Specific target organ toxicity - repeated exposure, oral, Category 2, Gastrointestinal tract (H373)
Specific target organ toxicity - single exposure, Category 3, Central nervous system (H336)

Pictogram	
Signal Word	Danger
Hazard Statements: Highly flammable liquid and vapour (H225), May cause fire or explosion; strong oxidizer (H271), May be corrosive to metals (H290), Harmful if swallowed (H302), Causes severe skin burns and eye damage (H314), Causes serious eye damage (H318), May cause drowsiness or dizziness (H336), May cause damage to organs (thyroid) through prolonged or repeated exposure (H373).	
Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep/Store away from clothing/combustible materials (P220), Take any precaution to avoid mixing with combustibles (P221), Keep container tightly closed (P233), Keep only in original container (P234), Ground/bond container and receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary measures against static discharge (P243), Do not breathe dust or mist (P260), Avoid breathing dust/fume/gas/mist/vaoprs/spray (P261), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Use only outdoors or in a well-ventilated area (P271), Wear protective gloves/protective clothing/eye protection/face protection (P280), Wear fire/flame	

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resistant/retardant clothing (P283), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301 + P330 + P331), IF ON SKIN (or hair): Take off immediately all contaminated clothing (P303 + P361 + P353), IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. (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 or doctor/physician. (P305 + P351 + P338 + P310), IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes (P306 + P360), Get medical advice/attention if you feel unwell (P314), If eye irritation persists: get medical advice/attention (P337 + P313), Wash contaminated clothing before reuse (P363), In case of fire: use dry sand, dry chemnical or alcohol-resistant foam for extinction (P370 + P378), In case of major fire and large quantities: Evacuate area. Fight fire remotely due to risk of explosion (P371 + P380 + P375), Absorb spillage to prevent material damage (P390), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store in a well-ventilated place and keep cool (P403 + P235),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

Chloramine T Reagent (Part No. 267503): One 600 µL vial

CHEMICAL NAME	CONCENTRATION	CAS #
Chloramine T	**<20%**	**149358-73-6**

Ehrlich's Diluent (Part No. 267506): One 5 mL bottle

CHEMICAL NAME	CONCENTRATION	CAS #
Isopropanol	**<70%**	**67-63-0**
Proprietary Reagent A	**<30%**	

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

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- 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
    - Chloramine T: no data available
    - Isopropanol: LD50 Oral: 5.045mg/kg (rat) remarks: behavioral: altered sleep time (including change in righting reflex), behavioral: somnolence (general depressed activity, LC50 Inhalation: 16000ppm 8h (rabbit), LD50 Dermal 12.800mg/kg (rabbit).
    - Perchloric Acid: LD50 Oral <2.000 mg/kg (rat)
- Skin corrosion/irritation
    - Chloramine T: causes skin burns
    - Isopropanol: mild skin irritation (rabbit)
    - Perchloric Acid: extremely corrosive and destructive to tissue
- Serious eye damage/irritation
    - Chloramine T: causes eye burns
    - Isopropanol: eye irritation 24h (rabbit)
    - Perchloric Acid: corrosive
- 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
    - Chloramine T: Toxicity to fish: LC50 31 mg/l-96h (Poecilia reticulate), flow through test LC50 20,6-26,2 mg/l-96h (Oncorhynchus mykiss), static test LC50 6,52-7,51 mg/l-96h (Pimephales promelas), static test LC50 1,63-2,19 mg/l-96h (Oncorhynchus mykiss); Toxicity to algae: EC50 80 mg/l-144h
    - Isopropanol: Toxicity to fish: LC50 9.640,00mg/l 96h (Pimephales promelas). Toxicity to Daphnia and other aquatic invertebrates: EC50 5.102,00mg/dl 24h (Daphnia magna); Immobilization EC50: 6.851mg/l 24h (Daphnia magna). Toxicity to algae: EC50 >2.000,00 72h (Desmodesmus subspicatus); EC50 >1.000,00 24h (Algae)Sulfuric Acid: LC50 42 mg/L in 96 hrs (mosquito fish); mortality NOEC 19.5 mg/L in 96 hrs

(rainbow trout); mortality LOEC 4.6 mg/L in 8 days (fathead minnow); growth inhibition LOEC 2.68 mg/L in 6 days (algae)
    - Perchloric Acid: Toxicity to Daphnia and other aquatic invertebrates: immobilization EC50 >100 mg/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

- Hazard Class: 3
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN1219

- Hazard Class: 8
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN2796

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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