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: CBA-320 and CBA-320-5
Product Name: CytoSelect™ 96-Well Hematpoietic Colony Forming Cell Asssay
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

CytoSelect™ Methylcellulose Medium (Part No. 132001): One sterile bottle – 15 mL

Classification:
Flammable liquids, Category 4 (H227)
Acute toxicity, Oral, Category 3 (H301)
Acute toxicity, Inhalation, Category 3 (H331)
Acute toxicity, Dermal, Category 2 (H310)
Skin irritation, Category 2 (H315)
Serious eye damage, Category 1 (H318)
Skin sensitization, Category 1 (H317)
Specific target organ toxicity - repeated exposure, Liver/Heart, Category 2 (H373)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 1 (H410)

Pictogram	
Signal Word	Danger
Hazard Statements: Combustible liquid (H227), Toxic if swallowed or if inhaled (H301 + H331), Fatal in contact with skin (H310), Causes skin irritation (H315), May cause an allergic skin reaction	

(H317), Causes serious eye damage (H318), May cause damage to organs (liver, heart) through prolonged or repeated exposure if swallowed (H373), Very toxic to aquatic life with long lating effects (H410).
Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces - No smoking (P210), Do not breathe dust/fume/gas/mist/vapors/spray (P260), Do not get in eyes, on skin, or on clothing (P262), 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), Contaminated work clothing should not be allowed out of the workplace (P272), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: immediately call a POISON CENTER / doctor. Rinse mouth (P301 + P310 + P330), IF ON SKIN: gently wash with plenty of soap and water. Immediately call a POSON CENTER or doctor (P302 + P350 + P310), IF INHALED: remove person to fresh air and keep comforable for breathing. Call a POISON CENTER / doctor (P304 + P340 + P311), 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), Get medical advice/attention if you feel unwell (P314), If skin irritation or rash occurs: get medical advice/attention (P333 + P313), Take off contaminated clothing and wash before reuse (P362), In case of fire: use dry sand, dry chemical or alcohol-resistant foam to extinguish (P370 + P378), Collect spillage (P391), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store in a well-ventilated place. Keep cool (P403 + P235), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

<u>4X Lysis Buffer</u> (Part No. 10404): One vial – 100 µL

Classification:
Acute toxicity, Oral, Category 4 (H302)
Eye irritation, Category 2A (H319)
Acute aquatic toxicity, Category 2 (H401)
Chronic aquatic toxicity, Category 2 (H411)

Pictogram	
Signal Word	**Warning**
Hazard Statements: Harmful if swallowed (H302), Causes serious eye irritation (H319), Toxic to aquatic life with long lasting effects (H411).	
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), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + 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), Collect spillage (P391), Dispose of contents/container to an approved waste disposal plant (P501).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CytoSelect™ Methylcellulose Medium (Part No. 132001): One sterile bottle – 15 mL

CHEMICAL NAME	CONCENTRATION	CAS #
ß-Mercaptoethanol	**50 µM**	**60-24-2**

4X Lysis Buffer (Part No. 10404): One vial – 100 µL

CHEMICAL NAME	CONCENTRATION	CAS #
Triton X-100	**4%**	**9002-93-1**

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
  - ß-Mercaptoethanol: LD50 Oral 98-162 mg/kg (rat); LC50 Inhalation 2 mg/l (rat); LC50 Inhalation 625 ppm (rat); LD50 Dermal 112-224 mg/kg (rabbit)
  - Triton X-100: LD50 oral 1.800 mg/kg (rat), LD50 dermal 8.000 mg/kg (rabbit)
- Skin corrosion/irritation
  - ß-Mercaptoethanol: Irritating to skin-Draize Test (rabbit)
  - Triton X-100: no data available
- Serious eye damage/irritation
  - ß-Mercaptoethanol: Risk of serious damage to eyes (rabbit)
  - Triton X-100: Moderate eye irritation-24 h (rabbit)
- Respiratory or skin sensitization
  - ß-Mercaptoethanol: Maximisation Test-guinea pig-OECD Test Guideline 406-May cause sensitization by skin contact
  - Triton X-100: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
  - ß-Mercaptoethanol: Toxicity to fish: LC50 46-100 mg/l (Golden orfe); Toxicity to Daphnia and other aquatic invertebrates: EC50 1,52 mg/l (Daphnia), EC50 0,89 method: OECD Test Guideline 202 (Daphnia); Toxicity to algae: EC50 12 mg/l (green algae); Toxicity to bacteria: LC50 125 mg/l
  - Triton X-100: Toxicity to Daphnia and other aquatic invertebrates- EC50 26 mg/L-48h (Daphnia)
- Mobility: no data available
- Biodegradation
  - ß-Mercaptoethanol: not readily biodegradable
  - Triton X-100: not readily biodegradable
- 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: no data available
- Subsidiary Class: no data available
- Packing Group: no data available
- UN-No: no data available

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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