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-100, 100-C, 100-COL, 100-FN, 107, 110, 110-COL, 110-LN
Product Name: CytoSelect™ Cell Migration and Invasion Assay Kits (Colorimetric)
Recommended Use: Laboratory Research Reagents

MANUFACTURER:

Cell Biolabs, Inc.
7758 Arjons Drive
San Diego, CA 92126

EMERGENCY CONTACT:

+1 858 271 6500
info@cellbiolabs.com

SECTION 2. HAZARDS IDENTIFICATION

Cell Stain Solution (Part No. 11002): One Bottle – 10.0 mL

Classification:
Acute toxicity, Oral, Category 4 (H302)
Serious eye damage, Category 1 (H318)
Carcinogenicity, Category 2, (H351)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 2 (H411)

Pictogram	
Signal Word	Danger
Hazard Statements: Harmful if swallowed (H302), Causes serious eye damage (H318), Suspected of causing cancer (H351), Very toxic to aquatic life with long lasting effects (H410).	
Precautionary Statements: Obtain special instructions before use (P201), Do not handle until all safetly precautions have been read and understood (P202), 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), Use personal protective equipment as required (P281), 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. Immediately call a POISON CENTER / doctor (P305 + P351 + P338 + P310), IF exposed or concerned: Get medical advice/attention (P308 + P313), Collect spillage (P391), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Extraction Solution (Part No. 11003): One Bottle – 10.0 mL

Classification:
Flammable liquids, Category 3, (H226)
Skin corrosion, Category 1B (H314)
Serious eye damage, Category 1 (H318)

Pictogram	
Signal Word	**Danger**
Hazard Statements: Flammable liquid and vapor (H226), Causes severe skin burns and eye damage (H314), Causes serious eye damage (H318).	
Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep container tightly closed (P233), Ground/bond container adn receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary measures against static discharge (P243), Wash skin thoroughly after handling (P264), 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), In case of fire: use dry sand, dry chemical or alcohol-resistant foam to extinguish (P370 + P378), 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).	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Cell Stain Solution (Part No. 11002): One 10 mL Bottle

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CHEMICAL NAME	CONCENTRATION	CAS #
Crystal Violet	**0.09%**	**548-62-9**

Extraction Solution (Part No. 11003): One 10 mL Bottle

CHEMICAL NAME	CONCENTRATION	CAS #
Acetic Acid	**10 %**	**64-19-7**

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
    - Crystal Violet: LD50 Oral 96 mg/kg (mouse); LD50 Oral 150 mg/kg (rabbit); LD50 Intraperitoneal 8,9 mg/kg (rat); LD50 Intraperitoneal 5,1 mg/kg (mouse); LD50 Intraperitoneal 5 mg/kg (rabbit); LD50 Intraduodenal 160 mg/kg (rabbit)
    - Acetic acid: LD50 Oral 3.31 mg/kg (rat); LC50 Inhalation 5620 ppm (mouse); LC50 inhalation-4h-11,4 mg/l (rat); LD50 dermal-1.112 mg/kg (rabbit)
- Skin corrosion/irritation
    - Crystal Violet: irritating to skin-human
    - Acetic acid: no data available
- Serious eye damage/irritation
    - Crystal Violet: no data available

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    - Acetic acid: Corrosive (rabbit)
- Respiratory or skin sensitization:
    - Crystal Violet: no data available
    - Acetic acid: may cause skin sensitization
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
    - Crystal Violet: Toxicity to daphnia and other aquatic invertebrate: EC50-Daphnia magna (Water flea)-0,24 mg/l-48h; Toxicity to algae: Pseudokirchneriella subcapitata 0,025-0,8 mg/l 72h
    - Acetic acid: LC50 1.0 mg/L in 96 hrs (rainbow trout); EC50 300.82 mg/L in 48 hrs (water flea)
- Mobility: no data available
- Biodegradation
    - Crystal Violet: not readily biodegradable
    - Acetic acid: 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: 9
- Subsidiary Class: none
- Packing Group: III
- UN-No: UN3082

- Hazard Class: 3
- Subsidiary Class: none
- Packing Group: II
- UN-No: UN1170

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

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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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