

## Safety Data Sheet

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

Catalog Number: CBA-5037 and CBA-5037-5  
 Product Name: Radius™ 48-well Cell Migration Assay  
 Recommended Use: Laboratory Research Reagents

**MANUFACTURER:**

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### SECTION 2. HAZARDS IDENTIFICATION

Fixation Solution (Part No. 122402): One bottle – 20.0 mL

**Classification:**

- Flammable solids, Category 2 (H228)
- Acute toxicity, Oral, Category 4 (H302)
- Acute toxicity, Inhalation, Category 4 (H332)
- Skin irritation, Category 2 (H315)
- Serious eye damage, Category 1 (H318)
- Skin sensitization, Category 1 (H317)
- Carcinogenicity, Category 2, (H351)
- Specific target organ toxicity - single exposure, Category 3, Respiratory system (H335)
- Acute aquatic toxicity, Category 3, (H402)
- Chronic aquatic toxicity, Category 3 (H412)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Flammable solid (H228), Harmful if swallowed or inhaled (H302 + H332), Causes skin irritation (H315), May cause an allergic skin reaction (H317), Causes serious eye damage</p>	


(H318), May cause respiratory irritation (H335), Suspected of causing cancer (H351), Harmful to aquatic life with long lasting effects (H412).

**Precautionary Statements:** Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Ground/bond container and receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting equipment (P241), Avoid breathing dust/fume/gas/mist/vapors/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), 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: call a POISON CENTER or doctor/physician if you feel unwell (P301 + P312), IF ON SKIN: wash with plenty of soap and water (P302 + P352), 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), Rinse mouth (P330), 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), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

Cell Stain Solution (Part No. 112505) One vial – 12.0 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)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<p><b>Hazard Statements:</b> Harmful if swallowed (H302), Causes serious eye damage (H318), Suspected of causing cancer (H351), Very toxic to aquatic life with long lasting effects (H410).</p>	
<p><b>Precautionary Statements:</b> Obtain special instructions before use (P201), Do not handle until all safety precautions have been read and understood (P202), Wash skin thoroughly after handling (P264),</p>	

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).

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Fixation Solution (Part No. 122402): One bottle – 20.0 mL

CHEMICAL NAME	CONCENTRATION	CAS #
Formaldehyde	3.2 %	30525-89-4

Cell Stain Solution (Part No. 112505) One vial – 12.0 mL

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

### 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
  - Formaldehyde: LD50 Oral 592 mg/kg (rat), LC50 Inhalation 1.070 mg/m<sup>3</sup> 4h (rat), LDLO Dermal 10.000 mg/kg (rat)
  - 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)
- Skin corrosion/irritation
  - Formaldehyde: severe eye irritation (rabbit)
  - Crystal Violet: irritating to skin-human
- Serious eye damage/irritation
  - Formaldehyde: severe eye irritation (rabbit)
  - Crystal Violet: no data available
- Respiratory or skin sensitization:
  - Formaldehyde: may cause allergic skin reaction
  - Crystal Violet: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

## SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
  - Formaldehyde: Toxicity to daphnia and other aquatic invertebrates: EC5- 42 mg/l 24h (Daphnia magna)
  - 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
- Mobility: no data available
- Biodegradation
  - Formaldehyde: no data available
  - Crystal Violet: 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

### DOT

- Hazard Class: 3
- Packing Group: II



- UN-No: UN1170
- Poison Inhalation Hazard: No

#### **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

#### **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).

Revised 06/27/2018