

# Safety Data Sheet

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

Catalog Number:CBA-125 and CBA-125-5Product Name:Radius™ 24-well Cell Migration AssayRecommended Use:Laboratory Research Reagents

MANUFACTURER:

EMERGENCY CONTACT:

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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)

Pictogram	
Signal Word	Danger

**Hazard Statements:** 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 (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



safetly 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 electrical/ventilating/lighting explosion-proof equipment (P241), 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), Contaminated work clothing should not be allowed out of the workplace (P272), Avoid release to the environment (P273). Wear protective gloves/protective clothing/eve protection/face protection (P280). IF SWALLOWED: call a POISON CENTER or doctor/physican 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:**

Flammable liquids, Category 2 (H225) Acute toxicity, Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Eye irritation, Category 2A (H319) Carcinogenicity, Category 2, (H351) Acute aquatic toxicity, Category 1 (H400) Chronic aquatic toxicity, Category 2 (H411)

Pictogram				
Signal Word	Danger			
<b>Hazard Statements:</b> Highly flammable liquid and vapour (H225), Harmful if swallowed (H302), Causes serious eye damage (H318), Causes serious eye irritation (H319), 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), 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), 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 on skin or hair: Take off immediately all contaminated clothing (P303 + P361 + P353), 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), In case of fire: use dry sand, dry chemnical or alcohol-resistant foam for extinction (P370 + P378), Collect spillage (P391), Store in a well-ventilated place and 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

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
Ethanol	10%	64-17-5

#### **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/m3 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)
  - Ethanol: LD50 Oral 7.060 mg/kg (rat), LC50 Inhalation 20000 ppm 10h (rat)
- Skin corrosion/irritation
  - Formaldehyde: severe eye irritation (rabbit)
  - Crystal Violet: irritating to skin-human
  - Ethanol: Irritating to skin 24h (rabbit)
- Serious eye damage/irritation
  - Formaldehyde: severe eye irritation (rabbit)
  - Crystal Violet: no data available
  - Ethanol: Mild eye irritation 24h Draize test (rabbit)
- 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 - 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 08/15/2023