1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ColorFluor Succinate Assay Kit
Item Number: BA0149
Manufacturer: ReagentBio Ireland LTD, Dublin, Ireland
Email: info@assaygenie.com

2. HAZARDS INDENTIFICATION

GHS Classification
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity (Category 3), Respiratory system, H335
GHS Label elements, including precautionary statements
Pictogram
Signal word: Warning

Hazard statements
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary stratements
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.
P302 + P352: *If on skin*: Wash with plenty of soap and water.
P304 + P340: *If inhaled*: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: *If in eyes*: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a doctor/ physician if you feel unwell.
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains the following components and mixture of the following substances with non-hazardous additions.

Assay Buffer: 10 mL Liquid
Contains 0.1-20% glycerol (CAS #: 56-81-5) and 0.1-10% 4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid (CAS#: 7365-45-9)
Dye Reagent: 120 µL liquid
Contains 10-99% dimethyl sulfoxide (CAS#:9002-93-1)
Enzyme Mix: 120 µL Liquid
Contains 0.1-2% potassium phosphate (CAS #: 16788-57-1) and 20% glycerol (CAS #: 56-81-5)
PEP: Dried
Contains 0.1-3% phosphoenolpyruvic acid (CAS #: 138-08-9)
CoSubstrate: 120 µL Liquid
Contains 0.1-3% ATP (CAS #: 987-65-5) and Coenzyme A (CAS #:85-61-0)
Standard: 500 µL Liquid
Contains 0.1-0.5% succinic acid disodium salt (CAS#: 150-90-3)

4. FIRST AID MEASURES

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

Inhalation: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion: Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

5. FIRE FIGHTING MEASURES

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away; isolate hazard area and deny entry. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

7. HANDLING AND STORAGE

Keep receptacles tightly sealed and store according to the instructions in the assay protocol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to 3. Composition/Information On Ingredients.

10. STABILITY AND REACTIVITY

Thermal Decomposition: no decomposition if used according to specifications. *Dangerous Products of Decomposition:* nitrogen and sulfur oxides. *Dangerous Reactions:* none.

11. TOXICOLOGICAL INFORMATION

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

Glycerol- Oral LD50 rat: 12,600 mg/kg; Inhalation: no data available; Dermal rabbit: >10,000 mg/kg. Corrosion/irritation rabbit: mild skin irritation - 24 h; mild eye irritation - 24 h.

Dimethyl sulfoxide - Acute toxicity Oral LD50 rat, 14,500 mg/kg; Inhalation LC50 rat 4h: 40250ppm. Dermal LD50 rabbit: >5,000 mg/kg; Other information on acute toxicity: no data available.

Succinic acid - Acute toxicity LD50 Oral rat: 2,260 mg/kg; Inhalation rat: 4h 1,284 mg/L; Dermal: no data available; Skin corrosion/irritation: 4h No skin irritation; Serious eye damage/eye irritation rabbit: Risk of serious damage to eyes -24 h.

12. ECOLOGICAL INFORMATION

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

13. DISPOSAL INFORMATION

Dispose in accordance with local, state or national regulations.

14. TRANSPORT INFORMATION

Proper Shipping Name: Assay Kits

DOT (US) - Not dangerous goods.

IMDG - Not dangerous goods.

IATA - Not dangerous goods.

Additional Transport Information: transport in accordance with local, state and national regulations.

15. REGULAROTY INFORMATION

OSHA Hazards: Target Organ Effect.
SARA 311/312 Hazards: Chronic Health Hazard.

16. OTHER INFORMATION

The above information is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. Assay Genie makes no warranty, express or implied, and assumes no responsibility as to the accuracy or suitability of such information or application to the User's intended purpose or for consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.