



Material Safety Data Sheet

(Prepared according to 1907/2006/EC, Article 31)

Revision Date: 06-Oct-2016

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Details:

Trade Name: SRB Cytotoxicity Assay

Catalog Number	Size
CA050	1000 rxns

1.2 Company Details:

Canvax Biotech SL
Parque Científico-Tecnológico "Rabanales 21"
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1.3 Toxicological Information Service:

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

For Research use only

2. CHEMICAL CHARACTERISATION

Components:

Dye Wash solution (10X): Contains no hazardous substances in concentrations to be declared

Fixative Reagent: 50-80% Trichloroacetic acid TCA; CAS-No. 76-03-9

SRB Dye: 100% Sulforhodamine B; CAS-No. 3520-42-1.

SRB Solubilization Buffer: Contains no hazardous substances in concentrations to be declared

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Fixative Reagent:

DANGER! CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED. INHALATION MAY CAUSE LUNG DAMAGE.

Potential health effects.

Inhalation:

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Inhalation of dust may cause coughing, choking, with variable symptoms of headache, dizziness, and weakness. May cause lung edema.

Ingestion:

Corrosive. Sore throat, severe abdominal pain, vomiting, and tissue damage may occur.

Skin Contact:

Corrosive. Redness, pain, skin burns can occur.

Eye Contact:

Corrosive. Redness, pain, blurred vision can occur. Can cause burns and permanent eye damage.

Chronic Exposure:

Long exposures to acid fumes may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of bronchial pneumonia may also occur. Aggravation of Pre-existing Conditions:

Persons with skin disorders, eye problems, or respiratory problems may be more susceptible to the effects of this substance.

The usual precautions taken when handling chemicals should be observed with all other components of the kit.

4. FIRST AID MEASURES

Dye Wash solution, SRB Dye, SRB Solubilization Buffer:

Skin contact:	Wash skin with water thoroughly.
Eye contact:	Promptly wash eyes with water for at least 15 minutes, if necessary seek medical advice.
Ingestion:	Obtain medical attention.

Fixative Reagent:

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.
Eye Contact:	Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.
Ingestion:	If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately



5. FIRE-FIGHTING MEASURES

Extinguishing media:

Fixative Reagent: Fires involving this material can be controlled with a dry chemical, carbon dioxide, or Halon extinguisher.

All other kit contents: No restriction.

Decomposition:

Fixative Reagent: When heated to decomposition, product may emit toxic fumes of CO, CO₂, and HCl gas.

All other kit contents: Dangerous decomposition is not anticipated.

6. ACCIDENTAL RELEASE MEASURES

Dye Wash solution, SRB Dye, SRB Solubilization Buffer

Actions to be taken on spillage: Smaller quantities can be washed off with plenty of water.

Absorbent material: No restriction.

Actions to be taken to limit damage: Special measures to limit damage are not necessary

Fixative Reagent:

Ventilate area of leak or spill. Clean-up personnel need protection against inhalation or contact with substance. Use absorbent paper to pick up all liquid spill material. Seal the absorbent paper, as well as contaminated clothing, in a vapor-tight plastic bag for disposal. Wash all contaminated surfaces with a soap and water solution.

7. HANDLING AND STORAGE

Dye Wash solution, SRB Dye, SRB Solubilization Buffer

Handling: The product itself does not burn. No special requirements

Do not store together with: No restriction.

Fixative Reagent

Wear gloves (nitrile), lab coat and splash-proof safety goggles when handling. Wash hands after handling. Protect container against physical damage. Containers of this material may be hazardous when empty since they retain product residues; observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: Safety glasses.

Skin protection: Lab coat and protective gloves (nitrile gloves for Fixative Reagent)

Hygiene measures: Wash hands after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Dye Wash solution, Fixative Reagent , SRB Solubilization Buffer.

Form: liquid

Miscibility with water: completely miscible

SRB Dye:

Solid (Powder),



10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use

Hazardous decomposition products: Carbon monoxide, carbon dioxide, chloroform, hydrogen chloride, phosgene

11. TOXICOLOGICAL INFORMATION

Dye Wash solution, SRB Dye, SRB Solubilization Buffer

No toxicological information available

Fixative Reagent

Acute Toxicity: Trichloroacetic acid may cause severe burns and is highly irritating to the eyes and skin. It is a corrosive irritant that rapidly penetrates and “fixes” tissues. It is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Skin irritation tests in rabbits resulted in a “mild” rating at 210 mg. Trichloroacetic acid is classified as a poison by subcutaneous route and is moderately toxic by intraperitoneal route.

Signs/Symptoms of Overexposure: Inhalation may result in coughing, choking, headache, dizziness, weakness, or pulmonary edema. Ingestion may cause sore throat, severe abdominal pain, vomiting or tissue damage. Redness, pain, and blurred vision may result from skin or eye exposure.

Chronic Toxicity: This product is not considered a carcinogen by NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

None anticipated under normal conditions of use.

13. DISPOSAL CONSIDERATIONS

Dye Wash solution, SRB Dye, SRB Solubilization Buffer:

Waste disposal route: Small quantities may be disposed off in waste water.

Disposal of empty packaging: Dispose of empty packs via local recycling or waste disposal routes- if necessary, clean them beforehand.

Fixative Reagent:

Waste disposal route: TCA is a strong acid. Small quantities may be disposed off in wastewater, depending on local regulations for your lab. If necessary neutralize with bicarbonate before disposing.

Disposal of empty packaging: Dispose of empty packs via waste disposal routes- if necessary, clean them beforehand.

14. TRANSPORT INFORMATION

Fixative Reagent:

Proper shipping name (DOT): Trichloroacetic acid, solution

UN/ID number: UN2564 Hazard class: 8

Packing group: II Labels required: Corrosive

15. OTHER INFORMATION

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Canvax Biotech SL shall not be held liable for any damage resulting from handling or contact with the above product.