Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

MATERIAL SAFETY DATA SHEET
SRB Cytotoxicity Assay Kit

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

1.1. PRODUCT DETAILS

Trade Name: SRB Cytotoxicity Assay Kit

Catalog Number: CA050

1.2. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: +34 931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE):

Skin corrosion	Category 1
Short-term (acute) aquatic hazard	Category 1
Long-term (chronic) aquatic hazard	Category 1

Physical Hazards: not classified

Health Hazards: See section 2.2.

Environmental Hazards: not classified.

2.2. LABEL ELEMENTS



H226 Flammable liquid and vapour

H314 Causes severe skin burns and eye damage

H410 Very toxic to aquatic life with long lasting effects

2.3. PREVENTIVE ADVICE

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P260 Do not breathe dust

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor

P305+P351+P338 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.4. OTHER HAZARDS

Not applicable

3. CHEMICAL CHARACTERIZATION

Product	Substance	CAS-no.	Weight %	Classificaction according to (67/548/CEE) or (199/45/CE)
Fixative Reagent	Trichloroacetic acid TCA	76-03-9	25 - 35	Skin Corr 1. H314 Toxic aquatic life 1 H410

SRB Dye	Contains no hazardous substances in concentrations to be declared.

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

Dye Wash Solution (10x)	Acetic acid	64-19-7	8 - 15	Flam. Liq. 3 H327 Skin Corr 1A H314 Eye Dam. 1 H318

4. FIRST AID MEASURES

4.1. DESCRIPTION OF DIRTS AID MEASURES

Inhalation: After inhalation: fresh air. Call a physician.

Ingestion: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

Eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Wear Personal Protective Equipment. If skin irritation occurs: Get medical advice.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Do not allow run-off from fire fighting to enter drains or water courses. Exposure to decomposition products may be a hazard to health.

5.3. ADVICE FOR FIRE FIGHTERS

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...) in accordance with Directive 89/654/EC.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust/fume/gas/mist/vapors/spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

Acetic acid: Risk of explosion.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover drains. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations.

6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Always wear recommended Personal Protective Equipment. Wash hands and face after working with substance.
Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

7.3. SPECIFIC END USE(S)

For research use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

8.2. EXPOSURE CONTROLS

Special protective equipment



Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Footwear protecting against chemicals. Workers should wear antistatic footwear.

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

Personal Hygiene: Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.

Environmental exposure controls: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Fixative Reagent
Appearance: Liquid

SRB Solubilization Buffer
Appearance: Liquid

Wash Solution
Appearance: Liquid

SRB Dye
Appearance: Solid

9.2. OTHER INFORMATION

Not determinated.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

There are no known reactivity hazards associated with this product.

10.2. CHEMICAL STABILITY

No data available.

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4. CONDITIONS TO AVOID

Strong heating.

10.5. INCOMPATIBLE MATERIALS

No data available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

- **Trichloroacetic acid: LD50 oral – rat - > 3320 mg/kg**
  LD50 oral – rat - > 3320 mg/kg
- **Acetic acid LD50 oral – rat - > 3310 mg/kg**

Primary irritant effect:

- On the skin: Causes severe burns.
- On the eye: Causes serious eye damage.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

Following information is valid for pure substances:

Trichloroacetic acid (76-03-9)

- LC50 fish 1 2000 mg/l (96 h)
- EC50 Daphnia 2 2000 mg/l (48 h)

Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.
Acetic acid (64-19-7)

- LC50 (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l (96 h)
- EC50 (Daphnia magna (Water flea)): 300.82 mg/l (48 h)

12.2. PERSISTENCE AND DEGRADABILITY

Trichloroacetic acid: No data available.

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

Acetic acid:

Biodegradability:

99 % - Readily biodegradable (OECD Test Guideline 301D) Remarks: (HSDB)

95 % - Readily eliminated from water (OECD Test Guideline 302B)

Biochemical Oxygen Demand (BOD): 880 mg/g

Ratio BOD/ThBOD: 76%

12.3. BIOACCUMULATION POTENTIAL

No data available.

12.4. MOBILITY IN THE SOIL

No data available.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This mixture does not contain substances classified as PBT or vPvB.

12.6. OTHER ADVERSE EFFECTS

No data available.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

General information: Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

No information required.

14.2. UN PROPER SHIPPING NAME

No information required.

14.3. TRANSPORT HAZARD CLASS(ES)

No information required.

14.4. PACKAGING GROUP

No information required.

14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

Canvax Reagents, S.L.
Luis de Mercado Street, 19
Boecillo Technological Park
47151, Boecillo
Valladolid, Spain.

Tlf: +34 983 54 85 63
info@canvaxbiotech.com
www.canvaxbiotech.com

14.6. SPECIAL PRECAUTIONS FOR USER

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

No information required.

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

National Provisions: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Guidance: CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

16. OTHER INFORMATION

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date: 09/07/2024

Revision: 01

Date of replacement: No previous revision.