

Safety Data Sheet


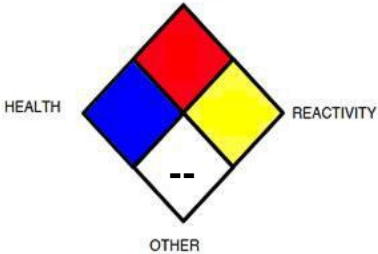
Section 1: Product & Company Identification

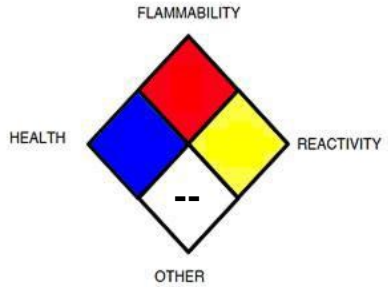
Product Name:	SRB Cytotoxicity Assay
Product #:	S-3353
Synonyms:	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Fixative Reagent: Trichloroacetic Acid	76-03-9		50-80
SRB Dye: Sulforhodamine B	3520-42-1		100

Section 3: Hazards Identification

Symbols	
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">OTHER</p>

NFPA Classification	
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Section 4: First Aid Measures

General Overview:	Fixative Reagent: <ul style="list-style-type: none"> • DANGER! CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. IF SWALLOWED OR INHALED. INHALATION MAY CAUSE LUNG DAMAGE. • 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. • Persons with skin disorders, eye problems, or respiratory problems may be more susceptible to the effects of this substance.
Inhalation:	Fixative Reagent: <ul style="list-style-type: none"> • Inhalation of dust may cause coughing, choking, with variable symptoms of headache, dizziness, and weakness. May cause lung edema. • If inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Skin:	Fixative Reagent: <ul style="list-style-type: none"> • Corrosive. Redness, pain, skin burns can occur. • If on skin: 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. Dye Wash solution, SRB Dye, SRB Solubilization Buffer: <ul style="list-style-type: none"> • If on skin: Wash skin with water thoroughly
Eyes:	Fixative Reagent: <ul style="list-style-type: none"> • Corrosive. Redness, pain, blurred vision can occur. Can cause burns and permanent eye damage. • If in eyes: 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. Dye Wash solution, SRB Dye, SRB Solubilization Buffer: <ul style="list-style-type: none"> • If in eyes: Promptly wash eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion:	Fixative Reagent: <ul style="list-style-type: none"> Corrosive. Sore throat, severe abdominal pain, vomiting, and tissue damage may occur. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Dye Wash solution, SRB Dye, SRB Solubilization Buffer: <ul style="list-style-type: none"> If swallowed: Get medical attention
See section 11 for more detailed information on health effects & symptoms.	

SECTION 5: Fire Fighting Measures

Flammability of the product:	No data available
Extinguishing Media:	Fixative Reagent: Fires involving this material can be controlled with a dry chemical, carbon dioxide, or Halon extinguisher.
Hazardous thermal (de)composition products:	Fixative Reagent: When heated to decomposition, product may emit toxic fumes of CO, CO ₂ , and HCl gas. All other kit contents: Dangerous decomposition is not anticipated.
Special Fire Fighting Procedures:	N/A
Flash Point:	N/A

Section 6: Accidental Release Measures

Personal Precautions:	N/A
Environmental Precautions:	N/A
Methods for Clean-up:	Dye Wash solution, SRB Dye, SRB Solubilization Buffer: Smaller quantities can be washed off with plenty of water. 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.

SECTION 7: Handling & Storage

Storage:	Room temperature
Handling:	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.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



No personal respiratory protective equipment normally required.

Skin and Body:



Lab coat and protective gloves (nitrile gloves for Fixative Reagent)

Eyes:



Safety glasses

Ventilation/Engineering Measures:

Ensure adequate ventilation.

Hygiene:

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

Other:

N/A

SECTION 9: Physical and Chemical Properties

Appearance & Odor:

Dye Wash solution, Fixative Reagent, SRB Solubilization Buffer: Liquid
SRB Dye: Solid (powder)

Formula

N/A

Molecular Wt.

N/A

Melting Pt.	N/A
Boiling Pt.	N/A
Density:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Solubility:	N/A
Flash Point:	N/A
Autoignition Temp:	N/A

SECTION 10: Stability and Reactivity

Stability:	Stable under recommended conditions.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, chloroform, hydrogen chloride, phosgene
Materials to Avoid:	N/A
Conditions to avoid:	N/A

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	<p>Fixative Reagent:</p> <ul style="list-style-type: none"> 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. 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.
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p>

	<p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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SECTION 12: Ecological Information

Ecotoxicity:	None anticipated under normal conditions of use.
Mobility:	N/A
Persistence and degradability:	N/A
Bioaccumulative potential:	N/A
Other adverse effects:	N/A
Corrosivity Characteristic:	N/A
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	<p>Dye Wash solution, SRB Dye, SRB Solubilization Buffer: Small quantities may be disposed of in waste water.</p> <p>Fixative Reagent: TCA is a strong acid. Small quantities may be disposed of in wastewater, depending on local regulations for your lab. If necessary neutralize with bicarbonate before disposing.</p>
Contaminated Packaging:	<p>Dye Wash solution, SRB Dye, SRB Solubilization Buffer: Dispose of empty packs via local recycling or waste disposal routes- if necessary, clean them beforehand.</p> <p>Fixative Reagent: Dispose of empty packs via waste disposal routes- if necessary, clean them beforehand.</p>

SECTION 14: Transportation Information

UN ID#:	Fixative Reagent: UN2564
ADR / RID (LAND):	Fixative Reagent: UN2564
DOT regulations:	<p>Fixative Reagent: UN2564</p> <p>Proper Shipping Name: Trichloroacetic acid, solution</p> <p>Hazard Class 8</p> <p>Packing Group II</p>

	Labels Required: Corrosive
IMDG/IMO (SEA):	Fixative Reagent: UN2564 Proper Shipping Name: Trichloroacetic acid, solution Hazard Class 8 Packing Group II Labels Required: Corrosive
IATA/DGR (AIR):	Fixative Reagent: UN2564 Proper Shipping Name: Trichloroacetic acid, solution Hazard Class 8 Packing Group II Labels Required: Corrosive
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	Danger! H314 Corrosive. Causes severe burns to every area of contact. H302 + H330 Harmful if swallowed or inhaled. H335 May cause respiratory irritation
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA:
WHMIS (Canada):	N/A

SECTION 16: Other Information



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