#4050 MSDS

Material Safety Data Sheet (MSDS) for Tris-Glycine SDS Running Buffer (10X)

Cell Signaling TECHNOLOGY®

I. Identification:

Product name: Tris-Glycine SDS Running Buffer (10X)
Product Catalog: 4050
Manufacturer Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923 USA
1-978-867-2300 TEL
1-978-867-2400 FAX
1-978-578-6737 Emergency TEL

II. Composition/Information on Ingredients:

This product is a mixture of substances. According to 29 CFR 1910.1200(d), mixtures with hazardous ingredients at less than <1% and carcinogens at less than < 0.1% are considered non-hazardous. Ingredients in this mixture above these thresholds are listed below.

Hazardous Ingredient:	Percent (%w/v)	CAS#	RETCS#
Tris	3%	77-86-1	–
Glycine	14%	56-40-6	–
Sodium dodecyl sulfate	1%	151-21-3	WT1050000

III. Hazard Identification:

Irritant. Irritating to eyes, respiratory system, and skin. Harmful. Harmful in contact with skin and if swallowed.
Target organ: Lungs.

HMIS Rating	Health: 2	Flammability: 0	Reactivity: 1
NFPA Rating:	Health: 2	Flammability: 0	Reactivity: 1

IV. First Aid Measures:

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.
Ingestion: If person is conscious, wash out mouth with water. Get medical attention.
Skin exposure: Wash skin with soap and water. If irritation develops or persists, get medical attention.
Eye exposure: Immediately flush eyes water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Flash Point: N/A
Autoignition Temperature: N/A
Explosion: N/A
Fire extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.
Specific Hazard: May emit toxic fumes (sulfur oxides and sodium oxides) under fire conditions.

VI. Accidental Release Measures:

Wear appropriate personal protective equipment as indicated in Section VIII. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

VII. Handling And Storage:

Store at 4°C in tightly closed container. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

VIII. Exposure Controls/Personal:

Ventilation System: A system of local and/or general exhaust is recommended.
Skin Protection: wear compatible chemical resistant gloves and protective clothing.
Eye protection: wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical And Chemical Properties:

Appearance:	clear, colorless liquid
Odor:	data not available
pH:	8.2-8.6
Boiling Point:	data not available
Melting Point:	data not available
Freezing Point:	data not available
Volatile Organic Compounds (VOC):	data not available
Autoignition temp.	data not available
Solubility (water):	soluble

X. Stability and Reactivity:

Stability: Stable under normal conditions.
Conditions to avoid: Strong oxidizing agents, strong acids.
Hazardous Decomposition: Carbon monoxide, carbon dioxide, sulfur oxides, sodium oxides.
Hazardous polymerization: Will not occur.

XI. Toxicological Information:

Routes of Exposure:
Skin Exposure: May case skin irritation. May be harmful if absorbed through skin.
Eye Exposure: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membrane and upper respiratory tract.
Ingestion: May be harmful if swallowed.

Exposure Remarks on hazardous ingredient Sodium Dodecyl Sulfate (SDS):
RTECS# WT1050000. Target organs: Lungs. LD50 Rat oral 1288 mg/kg LD50 Rat ip 210 mg/kg LD50 Rat iv 118 mg/kg
The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking.

XII. Ecological Information: Data not available.

XIII. Disposal Considerations: Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

XIV. Transport Information:

D.O.T.
Proper Shipping Name: None.
This substance is considered non-hazardous for transport.
IATA
Proper Shipping Name: None.
This substance is considered non-hazardous for air transport.

XV. Regulatory Information:

US Regulations/Classifications: Data not available.
SARA Listed: No
TSCA Listed: No
Canada (WHMIS): DSL No, NDSL No.

XVI. Other Information:

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.

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