
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Tris Buffered Saline (TBS-10X)

Product Number 12498

Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.
Not intended for therapeutic or diagnostic procedures.

Substance/Mixture:Mixture

Supplier Cell Signaling Technology, Inc.
3 Trask Lane
Danvers, MA 01923 USA

Phone #: 1-978-867-2300

Emergency Tel# 1-978-578-6737

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

GHS Classification

Not a dangerous substance according to GHS.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Physical State

Liquid

Potential Health Effects

Acute Toxicity

Eyes	May cause eye irritation. May be harmful if contact with eyes.
Skin	May be harmful if absorbed through skin.
Inhalation	May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water.
Skin Contact	Rinse immediately with soap and plenty of water.
Inhalation	Move to fresh air.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE FIGHTING MEASURES

Flash Point Not Flammable.
Suitable Extinguishing Media Use dry chemical
Special exposure hazards No data available
Special protection for fire fighters Wear appropriate self-contained breathing apparatus and protective unit
Other information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear personal protective equipment
Environmental precautions No data available
Clean up methods Soak up with absorbent material. Keep in suitable closed containers for disposal.
Other information See sections 12 and 13 for additional information.

7. HANDLING AND STORAGE

Safe handling advice Avoid contact with eyes and skin. Ensure adequate ventilation.
Storage condition Keep container tightly closed in a cool dry location.
Incompatibilities No data available
Specific end uses No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls

Apply technical measures to comply with the occupational exposure limits.

Engineering Controls

Emergency eyewash and safety shower. Mechanical exhaust required.

Hygiene Measures

Do not eat, drink or smoke when handling product. Wash hands thoroughly after handling product. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.
Eye Protection: Safety glasses with side shields
Skin and body protection: Wear suitable protective clothing, protective shoes or boots.
Hand protection: Compatible chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

Physical State	liquid
Appearance	no data available
Odor	no data available
pH	7.6
Water Solubility	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Evaporation rate	no data available
Flammability	Not flammable
Flash point	no data available
Autoignition temperature	no data available
Flammability limits in air	no data available
Explosive properties	no data available
VOC content	no data available
Decomposition temperature	no data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions/Materials to avoid	No data available
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION
Acute Toxicity

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

Potential Health Effects
Acute Toxicity

Eyes	May be harmful if contact with eyes. May cause eye irritation.
Skin	May be harmful if absorbed through skin.
Inhalation	May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

Chronic Effects

Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Teratogenic effects	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.
Sensitization	Data not available

12. ECOLOGICAL INFORMATION

Ecotoxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability	Data not available
Bioaccumulation	Data not available
Mobility	Data not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable environmental laws and regulations.

14. TRANSPORT INFORMATION

IATA	Not regulated as dangerous goods
DOT	Not regulated as dangerous goods
MEX	Not regulated as dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

GHS Classification

Not a dangerous substance according to GHS.

U.S. Federal Regulations**SARA 302**

No chemicals in this material are subject to reporting requirements established by SARA Title III, Section 302

SARA 311/312

No SARA hazards

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that exceed the reporting levels of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

Massachusetts Right-to-Know Components: -
New Jersey Right-to-Know Components: -
Pennsylvania Right-to-Know Components: -

California Proposition 65

This product does not contain chemicals known to the State of California to cause birth defects or other reproductive harm.

WHMIS Hazard Class

Not controlled.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Revision date 2013-10-09

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet