### Store at RT

997

#### Tris Buffered Saline with Tween<sup>®</sup> 20 (TBST-10X)

www.cellsignal.com

Support: 877-678-TECH (8324) info@cellsignal.com

> Orders: 877-616-CELL (2355) orders@cellsignal.com

Supplied as a 10X stock. 1000 ml

rev. 06/27/14

#### For Research Use Only. Not For Use In Diagnostic Procedures.

**Description:** Tris buffered saline (TBS) solution with the detergent Tween<sup>®</sup> 20 for use as a wash buffer during western blotting. Product is shipped and stored at room temperature. 1X Formulation: 137 mM Sodium Chloride, 20 mM Tris, 0.1% Tween-20. Supplied at pH 7.6.

**Direction for Use:** Dilute Tris Buffered Saline with Tween 20 (TBST-10X) to a 1X solution using ddH<sub>2</sub>0. This product supplies enough 10X material to make 10 liters of 1X solution.

**Storage:** Supplied as a 10X solution. Store at room temperature.

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Tween® is a registered trademark of ICI Americas, Inc.

Thank you for your recent purchase. If you would like to provide a review visit www.cellsignal.com/comments.



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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D, melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S, cerevisiae Ce—C, elegans Hr—Horse AII—all species expected Species enclosed in parentheses are predicted to react based on 100% homology



₩.	Cell Signaling
	С С Н И О L О G Y <sup>®</sup>
SAFETY DATA SHEET (SI Issuing Date: 2014-04-03	SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200 Version: 1 Issuing Date: 2014-04-03 Revision Date: 2014-04-03 Version: 1
	SECTION 1. Identification
Product identifier	
Product No. Product name Description Other means of identification	9937 Tris Buffered Saline with Tween ® 20 (TBST-10X)

Other means of identification	9997BC, 9997P, 9997P2, 9997S
Recommended use of the chemical and restrictions on use	and restrictions on use
Identified uses	This product is intended for research purposes only.
Uses advised against	This product is not intended for use in diagnostic procedures or t

es	This product is intended for research purposes only.	
d against	This product is not intended for use in diagnostic procedures or therapeutics.	
	This product is not intended for use in humans or animals.	
r, importer, supplier		
r addrace	Cell Simpling Technology Inc	

Manufacturer

Emergency telephone number	Email address	Website					Manufacturer address	
In case of emergency call CHEMTREC 1-800-424-9300	support@cellsignal.com 978-867-2300	www.cellsignal.com	FAX: +1 978 867 2400	TEL: +1 978 867 2300	Danvers, MA 01923	3 Trask Lane	Cell Signaling Technology, Inc.	

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 2B

SECTION 2. Hazard(s) identification

Serious eye damage/eye irritation

GHS Label elements, including precautionary statements

**Signal Word** Warning

Hazard statement(s) Causes eye irritation

Pre-cautionary Statement(s)
Wash face, hands and any exposed skin thoroughly after handling
Wash face, hands and any exposed skin thoroughly after handling
IF IN EYES: Finise cautiously with water for several minutes. Hemove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

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9997 - Tris Buffered Saline with Tween ® 20 (TBST-10X)

Supplementary Hazard Information

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Hazards not otherwise classified (HNOC) None

Agriance huffer colution		SECTION 3 Composition/information on incrediente
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Chemical nature Aqueous buffer solution	ffer solution	
 Chemical Name	CAS No.	Weight %
Sorbitan monolaurate, ethoxylated	9005-64-5	0.1-1%
 trometamol	77-86-1	1-5%
 sodium chloride	7647-14-5	7-13%

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ECTION 4. Fi
. First-aid measures
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Wash skin with soap and water.	Consult a physician.	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.	

Move to fresh air. If swallowed, do not induce vomiting - seek medical advice.

Skin contact Inhalation Ingestion

Eye contact

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Advice for emergency responders

General advice Protection of First-aiders

For further assistance, contact your local Poison Control Center. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**SECTION 5. Fire-fighting measures** 

Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

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Page 3/7	Eye/face protection         Safety glasses with side-shields.           Skin and body protection         Wear protective gloves/clothing.           Respiratory protection         If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worm. Positive-pressure supplied air respirators may be required for high airborne contaminant concentions. Hespiratory protection must be provided in accordance with good industrial hygiene and safety practice.	tilation systems. uch as personal protective equipment ) needs to be selected depending on the implemented engineering controls, and the concentrations of the hazardous substance.	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	SECTION 8. Exposure controls/personal protection Control parameters	Handle in accordance with good industrial hygiene and salety practice. Conditions for safe storage, including any incompatibilities Technical measures/Storage Keep containers tightly closed in a dry, cool and well-ventilated place. conditions Packaging material Incompatible products Strong oxidizing agents, Lithium alkyls, Bromine compounds.	and storage	See Section 12 for additional information. Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Pick up and transfer to properly labeled containers.	SECTION 6. Accidental release measures           Personal precautions, protective equipment and emergency procedures           For non-emergency personnel         Ensure adequate ventilation.           Other information         No information available.	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHANNOSH (approved or equivalent) and full protective gear.
Page 4/7	Incompatible Materials Strong oxidizing agents, Lithium alkyls, Bromine compounds. Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors: Carbon oxides, Hydrogen chloride, Sodium oxides.	Hazardous reactions     None under normal processing.       Hazardous polymerization     None under normal processing.       Conditions to Avoid     None under normal processing.       No information available.     None under normal processing.	<u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of hazardous reactions</u>	Reactivity No information available.	Decomposition temperature         No information available           Explosite properties         No information available           VICC content         No information available           Viscosity         No information available           Viscosity         No information available           Density         No information available           SECTION 10. Stability and reactivity	Vapor censity     No information available       Relative density     No information available       Solubility     In other solvents       No information available       Partition coefficient: n-octanol/waterNo information available       Partition coefficient: n-octanol/waterNo information available       Autoignition temperature     No information available	Flast point     No information available       Flast point     No information available       Evaporation rate     No information available       Flammability solid, gas)     No information available       Upper flammability limit     No information available       Lower flammability limit     No information available	Physical state Liquid Appearance Liquid Appearance Liquid Color Color Color Color Color Color Color Color No information available Odor Threshold No information available Metiting point/freezing point No information available Metital boliting No information available	SECTION 9. Physical and chemical properties

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Tris
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# **SECTION 11. Toxicological information**

## Information on likely routes of exposure

There is no data available for this product.	There is no data available for this product.	Contact with eyes may cause irritation.	There is no data available for this product.	

Eye contact Skin contact

Inhalation

Ingestion

### Information on toxicological effects

This material should only be handled by, or under the close supervision of, those property qualified in the handling and use of potentiality hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

	-	= 5900 mg/kg (Rat)	trometamol
LC50 Inhalation	LD50 Dermal	LD50 Oral	Chemical Name

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Symptoms	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Mutagenic effects	No information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identifiable
	as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Neurological effects	No information available.
Aspiration Hazard	No information available.

# **SECTION 12. Ecological information**

#### Ecotoxicity

Product does not present an aquatic toxicity hazard based on known or supplied information. 1-5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

sodium chloride	Chemical Name
	Toxicity to algae
LCS0 4747 - 7824 mg/L     (Onchrychus mysis) 95 h LCS0     12946 mg/L (aponis macrochius)     96 h LCS0 5656 - 6808 mg/L     (aponis macrochius) 95 h LCS0     64.20 - 6700 mg/L (Pinnghalas)     promelaus) 95 h LCS0 7050 mg/L     (Pinnghalas)     6020 - 7070 mg/L (Pinnghalas)     promelaus) 95 h	Toxicity to fish
EGS 340, 7 - 489, 2 mg/ (Daphnia magna) 46 h EGS 0 1000 mg/L (Daphnia magna) 48 h g/L	Toxicity to daphnia and other aquatic invertebrates

Mobility

Bioaccumulation Persistence and degradability

Product is biodegradable.

Dees not bioaccumulate. Will likely be mobile in the environment due to its water solubilty but will likely degrade over time

### Other adverse effects

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# 9997 - Tris Buffered Saline with Tween ® 20 (TBST-10X)

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No information available

# **SECTION 13. Disposal considerations**

### Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

### Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way.

# **SECTOIN 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

# North American Inventory Listing SECTION 15. Regulatory information

Not Listed	Listed	Listed	sodium chloride 7647-14-5 ( 7-13% )
Not Listed	Listed	Listed	trometamol 77-86-1 ( 1-5% )
Not Listed	Listed	Listed	Sorbitan monolaurate, ethoxylated 9005-64-5 (0.1-1%)
NDSL	DSL	TSCA	Component

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Reactive Hazard	Sudden Release of Pressure Hazard	Fire Hazard	Chronic Health Hazard	Acute Health Hazard	
No	No	No	No	Yes	

#### 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).

#### CERCLA

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This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Lability Act (CERCLA) (40 CFR 302) or the Supertund Amendments and Reauthorization Act (SAFA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

This product does not contain any substances regulated as pesticides.

**SECTION 16. Other information** 

Issuing Date: 2014-04-03 Revision Date: 2014-04-03 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handing, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet