

Safety Data Sheet

Control Number: 907-038

TBS Wash Buffers

January 22, 2018

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1. Product and Company Identification

Product(s)	TBS Plus, 10X (BRA942, BRR942, TBS942) Immunocare TBS Wash Buffer, 10X (BRA943, BRR943, TWB943) TBS Automation Wash Buffer, 20X (BRA945, BRR945, TWB945) TBS Automation Wash Buffer, 40X (BRA946, BRR946, TWB946)
Related Product Kit	Not applicable
Intended Use & Restrictions	Immunohistochemistry reagent intended for use by professional laboratory personnel that have been properly trained in its use.
Company Information	Biocare Medical, LLC 60 Berry Drive Pacheco, CA 94553 United States Tel: +1 800-799-9499 (7AM-5PM, PST, Mon-Fri) Fax: +1 925-603-8080 Web: www.biocare.net
24-Hour Emergency Contact	CHEMTREC +1 800-424-9300 (USA and Canada only) +1 703-527-3887 (all other countries)

2. Hazards Identification

Emergency Overview Clear, colorless liquid. Avoid prolonged exposure. Not flammable.

OSHA Hazards Irritant. Harmful by ingestion. Skin sensitizer.

GHS Classification Warning

Signal words, Symbol, Hazard & Precautionary Statements



H302 Harmful if swallowed.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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

Potential Health Effects

Skin Contact May be harmful if exposed to skin. May cause skin irritation, itching, redness or inflammation.

Eye Contact May be harmful if exposed to eyes. May cause eye irritation, watering eyes, stinging or burning sensation.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation, headache, dizziness, nausea or coughing.

Ingestion May be harmful if swallowed. May cause irritation of gastrointestinal tract, nausea, or vomiting.

See Section 11: Toxicological Information for additional information.

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Environmental Effects None identified.
See Section 12: Ecological Information for additional information.

3. Composition / Information on Ingredients

Chemical Name	Synonyms	% Composition	CAS Number
Tris Hydrochloride	Tris(hydroxymethyl)amino-methanehydrochloride	<15%	1185-53-1
Tris Base	Tris (hydroxymethyl) aminomethane	<5%	77-86-1
Sodium chloride	N/A	<20%	7647-14-5
Tween 20	Polyethylene glycol sorbitan monolaurate	<5%	9005-64-5
Proclin 950 (Solution of 2-Methyl-2H-isothiazol-3-one [9.9%])	MIT	0-0.5%	2682-20-4

Note: It has been determined that the remaining ingredients of this product are not classified as hazardous according to the Federal OSHA Hazardous Communication Standard (29 CFR 1910.1200) or the Globally Harmonized System of Classification and Labeling of Chemicals.

4. First Aid Measures

General Advice Avoid further exposure to product. Consult a physician.

In case of skin contact Wash exposed area with soap and plenty of water. Remove any contaminated clothing. Seek medical attention.

In case of eye contact Wash eyes with plenty of water for at least 15 minutes. Have victim remove contact lenses. Be sure to wash under eyelids. Seek medical attention.

If inhaled Remove victim to well-ventilated area. If victim is not breathing, give artificial respiration. Seek medical attention.

If swallowed If victim is conscious, rinse mouth with water. Do not give anything to an unconscious victim. Seek medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguisher media appropriate for surrounding fire.

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Special Exposure Hazards None identified.

6. Accidental Release Measures

Personal Precautions Use of personal protective equipment is recommended as described in Section 8. Isolate hazard area and deny entry to unprotected personnel.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

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Methods for containment and clean up Small spills may be contained and cleaned-up with paper towels or absorbent pads. Absorb large spills with sand or vermiculite and place in a closed container for waste disposal. Avoid physical contact during removal.

7. Handling and Storage

Precautions for Safe Handling Avoid contact with eyes, skin and clothing. Do not ingest. Wash hands thoroughly after use.

Conditions for Safe Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits Contains no substances with occupational exposure limit values.

Engineering Controls No special controls needed.

Personal Protective Equipment Contains no substances with occupational exposure limit values.

Eye Protection No special controls needed.

Skin Protection Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Respiratory Protection Use chemically resistant gloves and a lab coat with sleeves.

General Hygiene Measures Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance Clear, colorless solution.

Odor None

pH (as supplied) 7.6-7.8

Melting point Not determined.

Boiling point Not determined.

Flash point Not determined.

Flammability Not determined.

Lower explosion limit Not determined.

Upper explosion limit Not determined.

Vapor pressure Not determined.

Vapor density Not determined.

Specific gravity Not determined.

Solubility (in water) Soluble.

Partition coefficient (n-octanol/water) Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

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10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions (see Section 7).
Conditions to avoid	None identified.
Materials to avoid	Strong oxidizing agents, amines, mercaptans, reducing agents.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.
Possibility of hazardous reactions	No data available.

11. Toxicological Information

Acute dose effects	Tris Base: LD50 (rat), 5900 mg/kg Proclin 950: LD50 Oral (rat, female), 1091 mg/kg Proclin 950: LD50 Oral (rat, male), 2834 mg/kg Proclin 950: LD50 Dermal (rabbit), >5000 mg/kg Tween 20: LD50 Oral (rat) – 40,554 mg/kg
Repeat dose effects	No data available.
Skin irritation	Proclin 950: Rabbit, Causes severe burns. Tween 20: Human, Mild skin irritation, 3 days.
Skin and respiratory sensitization	Proclin 950: Guinea pig, May cause allergic skin reaction.
Eye irritation	Proclin 950: Rabbit, Corrosive.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated, or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.
Mutagenicity	No data available.
Reproductive effects	No data available.
Developmental effects	No data available.
Target organ effects	No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated at product concentrations.

12. Ecological Information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulation/accumulation	No data available
Mobility in environmental media	No data available
Other hazardous effects	No data available

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13. Disposal Considerations

Product Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

Contaminated packaging Dispose of as unused product.

14. Transportation Information

Proper shipping name Not applicable

Technical name Not applicable

Hazard class Not applicable

Identification number Not applicable

Packing group Not applicable

DOT (US) Not regulated

IMDG Not regulated

IATA Not regulated

TDG Not regulated

15. Regulatory Information

Inventory Status

United States (TSCA) All ingredients are on the inventory or exempt from listing.

Canada (DSL / NDSL) All ingredients are on the inventory or exempt from listing.

SARA 302 Components No chemicals in this product are subject to reporting requirements.

SARA 313 Components No chemicals in this product are subject to reporting requirements.

SARA 311/312 Hazards Proclin 950: Acute health hazard

California Prop. 65 components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

Sources and Suitability The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. Biocare shall not be held liable for any damage resulting from use, handling, or contact with the above product.

Revision Date January 22, 2018
(All SDS's before this date should be discarded.)

Replaces Revision March 1, 2017. This SDS has been updated to reflect current hazard information and product formulations.

Note: Before using this product, please visit the Biocare Medical website at <http://biocare.net> for the current version of this SDS.