



SAFETY DATA SHEET

Revision Date 15-Mar-2017

Version 1

1. IDENTIFICATION

Product Name Tris Buffered Saline Concentrate, 20X
Product Code TBS20X
Recommended Use For laboratory, scientific, R&D or manufacturing use.
Company Cancer Diagnostics, Inc.
116 Page Point Circle
Durham, NC 27703
1-877-846-5393
www.cancerdiagnostics.com
Emergency Telephone Call CHEMTREC 1-800-424-9300 (Infotrac International 1-352-323-3500) CDI CCN# 626623

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Although this product does not normally require specific hazard precautions, chemical users should always take care to minimize personnel exposure and workplace contamination. Store tightly closed at 15-30C.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	76-76.5
Sodium chloride	7647-14-5	17.5-18
Tris(hydroxymethyl)aminomethane	77-86-1	6-6.5

4. FIRST AID MEASURES

Description of first aid measures

General advice This chemical is not expected to produce any significant adverse health effects.
Eye contact Flush eyes with plenty of water, removing contact lenses if present. Get medical attention if irritation develops.
Skin contact Wash thoroughly with soap and water while removing contaminated garments. Get medical attention if irritation develops.
Inhalation Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion Rinse mouth and drink several glasses of water. Contact a physician or poison control center if symptoms develop.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx).

Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

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 Absorb spill with inert material, scoop up and containerize for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling Use personal protective equipment as required
Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Emergency showers, eyewash stations, ventilation systems.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colorless
Odor	Characteristic
Odor threshold	No information available
pH	No information available
Melting point / freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available

Flammability Limit in Air

Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water solubility	Miscible with water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No information available.
Conditions to avoid	Extremes of temperature and direct sunlight
Incompatible materials	No information available.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5 (76-76.5)	> 90 mL/kg (Rat)	-	-
Sodium chloride 7647-14-5 (17.5-18)	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h
Tris(hydroxymethyl)aminomethane 77-86-1 (6-6.5)	= 5900 mg/kg (Rat)	-	-

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Irritation	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	This chemical does not contain any carcinogens or potential carcinogens as listed by ACGIH, OSHA, IARC or NTP

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Persistence and degradability

No information available.

Bioaccumulation

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note: Transportation information is provided as a general reference only and may not be applicable in all situations. This information applies to non-bulk shipments only. Per 49 CFR §173.22, it is the shipper's responsibility to ensure that all materials are properly packaged, classified and labeled prior to shipment.

DOT Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

No information available.

16. OTHER INFORMATION

Prepared By CDI Quality & Regulatory Affairs (877-846-5393)

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Disclaimer

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End of Safety Data Sheet