

MATERIAL SAFETY DATA SHEET

Tris Buffered Saline (TBS), pH 8.0 and 7.6

1. Identification of the substance/preparation and of the company/undertaking

Product name: Tris Buffered Saline (TBS) pH 8.0 and 7.6
Chemical formula: N/A
Art no: A09-7500, A12-9133, A12-9134
Synonyms: TBS, Tris Buffered Saline
Manufacturer: Medicago AB
Danmark Berga
SE-755 98 Uppsala
Sweden
Phone: +46 (0) 18 56 11 80
Fax: +46 (0) 18 56 11 88
Emergency phone: 112 (Sweden)

2. Hazards Identifications

Classification: Xi - irritant

Human health hazards: Irritating to eyes, respiratory system and skin



3. Composition/information on ingredients

Ingredients

Sodium Chloride

Mass/Volume (%): ≤ 60
CAS no: 7647-14-5
EC no: None
Index no: None
Symbol: -
R-phrases: -
S-phrases: -

Tris

Mass/Volume (%): ≤ 42
CAS no: 77-86-1
EC no: 201-064-4
Index no: -
Symbol: Xi
R-phrases: R36/37/38
S-phrases: S26, S37

For full information on risk- and safety phrases, see section 15.

4. First-aid measures

Ingestion: If inhaled, remove to fresh air. If breathing becomes difficult, get medical attention.
Inhalation: Movement of exposed individual to area with fresh air.
Skin contact: Immediately wash skin with soap and water.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

5. Fire-fighting measures

Flammability of the product:	Non-flammable
Extinguishing media:	Use dry chemical powder, water spray, fog or foam.
Hazardous thermal (de)composition products:	Emits toxic fumes under fire conditions.
Special protective actions for fire fighters:	Wear breathing apparatus and full turnout gear.

6. Accidental release measures

Personal precautions:	Safety goggles. Full suit. Wear suitable respiratory equipment. Boots. Gloves.
Spill and leak:	Use appropriate tools to put the material in a waste disposal container. Finish cleaning by spreading water on the contaminated surface and ventilate the room.

7. Handling and storage

Handling:	Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Eating, drinking and smoking in work areas is prohibited. Wash hands before and after use. Remove contaminated clothing and protective equipment before entering eating areas.
Storage:	Store at +2 to +30°C in closed original container. Store away from oxidizing agents.

8. Personal protection/exposure controls



Protective clothing:	
Personal protective equipment:	Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use gloves and goggles.
Engineering measures:	Safety shower and eye bath. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Hygiene measures:	Wash hands after handling compounds and before eating, smoking and using lavatory.

9. Physical and chemical properties

Appearance:	Solid, white powder or tablets
Odour:	N/A
pH:	7.6 or 8.0 at 25°C
Melting point/freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability:	N/A
Upper/lower flammability or explosive limits:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Relative density:	N/A
Solubility(ies):	Completely soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A

Viscosity: N/A

10. Stability and reactivity

Stability and reactivity: Stable
Conditions to avoid: N/A
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: Sodium oxides, hydrogen chloride gas, carbon monoxide and carbon dioxide, nitrous vitriol gases
Hazardous polymerization: Will not occur.

11. Toxicological information

Skin corrosion/irritation: Irritant both acute and long-term. May be harmful if absorbed through skin.
Eye damage/irritation: Irritant both acute and long-term
Respiratory or skin sensitization: Irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ cell mutagenicity: N/A
Carcinogenicity: N/A
Reproductive toxicity: N/A

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

12. Ecological information

Ecotoxicity: N/A
Toxicity of the products of biodegradation: The products of degradation are less toxic than the product itself.
Persistence and degradation:
Bio accumulative potential: N/A
Mobility in soil: N/A

13. Disposal considerations

Disposal methods and containers: Contact a licensed professional waste disposal service (SKAB in Sweden) to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. Transport information

Shipping name (UN shipping name): N/A
UN-number: N/A
RID/ADR Non-hazardous for road transport
IMDG Non-hazardous for sea transport
IATA Non-hazardous for air transport

15. Regulatory information

EU Regulations

Hazard designation: Xi Irritant
Risk phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37 Wear suitable gloves.

16. Other information

Precautions and Disclaimer: For laboratory use only. Not for drug, household or other uses.

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Notice to reader

To the best of our knowledge, the information given is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.