

Effective date: 15/03/26	Hy-Labs Cat. No: TT243	MSDS FORMAT MATERIAL SAFETY DATA SHEET	hylabs Replace Doc: NA
Doc. No: MSDS-TT243			

1- Product and Company Identification

Product Name	SALINE SOLUTION - 1ml / 2ml / 3ml / 5ml / 9ml / 10ml tubes
Reference number	TT243
Identified uses	Diluent and washing isotonic solution for microbiological and laboratory procedures, including preparation of microbial suspensions and sample dilution.
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474

2- HAZARDS IDENTIFICATION

Classification under GHS/CLP:
Not classified as hazardous; 0.9% NaCl solutions generally do not meet criteria for any hazard class at this concentration.

Label elements:
No hazard pictogram, signal word, or H-phrases required for the mixture.

Hazard Classification:
Not classified as hazardous.

Precautionary Statements:
Use according to good laboratory practice.
Avoid contamination during use.

Other Hazards
No known significant hazards associated with normal laboratory use.

Possible minor effects:
May cause transient eye irritation if splashed.
Ingestion of very large volumes may cause discomfort or electrolyte/fluid imbalance in susceptible individuals, but is not expected under normal lab use.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Component	Concentration	CAS Number
Sodium Chloride	9 g/L (0.9%)	7647-14-5
Purified Water Balance		7732-18-5

The product does not contain hazardous substances at concentrations requiring disclosure according to GHS.

4- First Aid Measures

Inhalation
Not expected to present inhalation hazards.
Not a typical route of exposure (liquid, not volatile). If aerosol or mist is inhaled in high amounts, move to fresh air. Seek medical attention if symptoms (cough, shortness of breath) occur.

Skin Contact
Remove contaminated clothing if soaked. Wash skin with water and soap. No serious effects expected; seek medical advice if irritation persists.

Eye Contact
Rinse cautiously with clean water for several minutes, holding eyelids apart. Remove contact lenses if easy. Seek medical attention if irritation, pain, or visual changes persist.

Ingestion
Rinse mouth with water. Small amounts are unlikely to cause harm; if large amounts are swallowed and

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symptoms (nausea, vomiting, confusion) occur, seek medical attention.

Most important symptoms/effects:

No specific acute or delayed effects are expected at normal exposure; significant symptoms only with very large exposures or in patients with fluid/electrolyte disorders

5- Fire Fighting Measures

Suitable extinguishing media:

Use extinguishing measures appropriate for surrounding fire (water spray, foam, dry chemical, CO₂).

Specific hazards:

Aqueous saline is non-combustible; in a fire, water may boil away leaving solid NaCl, which is non-flammable.

Special protective equipment:

Standard firefighting PPE and SCBA where appropriate.

6- Accidental Release Measures

Personal precautions:

Wear standard lab PPE (lab coat, gloves, safety glasses) if large quantities are spilled. Floors may become slippery.

Environmental precautions:

Small laboratory volumes are not environmentally hazardous, but large releases should be prevented from entering confined drainage systems to avoid local salinity increases.

Methods for cleanup:

Absorb spill with paper towels or inert absorbent. Collect in suitable waste container. Wash area with water and detergent to remove residues.

7- Handling and Storage

Handling

Follow standard laboratory hygiene practices.
Avoid contamination of sterile solution.
Avoid splashing into eyes; avoid ingestion.
Ensure tubes are properly closed to prevent leaks.

Storage

Store at 15–25°C
Keep containers tightly closed.
Protect from contamination.

8- Exposure Controls, Personal Protection

Exposure Limits

No occupational exposure limits established for this solution.

Personal Protective Equipment (PPE)

Laboratory coat
Gloves (recommended for sterile work)

Engineering Controls

Standard laboratory ventilation.

9- Physical and Chemical Properties

Property	Description
Appearance	Clear liquid

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Color	Colorless
Odor	Odorless
pH	~5.5–7.5
Solubility	Completely soluble in water
Boiling Point	~100°C at 1 atm.
Melting/freezing point:	Approx. 0 °C (similar to water).
Flammability	Not flammable

10- Stability and Reactivity

Chemical Stability
Stable under recommended storage conditions.

Conditions to Avoid
Contamination
Extreme temperatures

Incompatible Materials
Strong oxidizing agents.
Strong acids or bases may alter pH significantly; otherwise NaCl solution is widely compatible.

Hazardous Decomposition Products
None under normal conditions.

11- Toxicological Information

Acute toxicity:
Low toxicity expected.
0.9% NaCl solutions are widely used in medicine and are considered of low acute toxicity; reported NaCl oral LD₅₀ in rodents is in gram/kg range, far above typical lab exposure.

Skin/eye irritation:
Generally, non-irritant to intact skin; may cause mild transient eye irritation.

Sensitization:
Not expected to be a sensitizer.

Chronic effects:
Only relevant in clinical contexts of excessive intravenous administration (fluid overload, electrolyte disturbances); not relevant to routine lab handling volumes.

No known adverse toxicological effects under normal laboratory use.

12- Ecological Information

Ecotoxicity:
At small lab volumes, 0.9% NaCl is not expected to be hazardous to aquatic organisms; large releases could increase local salinity.

Persistence/degradability:
Inorganic salts; not degradable but part of natural salt cycles.

Bioaccumulation:
Not expected.

No known environmental hazards associated with small quantities of saline solution.

13- Disposal Information

Product and containers:
Dispose according to local laboratory waste regulations.
Small quantities may typically be disposed of via laboratory drainage with excess water if permitted by local regulations.
Do not dispose of large volumes into confined drainage without prior dilution/approval.

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Empty tubes:

If not contaminated with biohazardous material, can be discarded as general laboratory plastic/glass waste following rinsing if required by policy.
When saline has been used with biological samples, follow biohazardous waste procedures.

14- Transport Information

Not classified as dangerous goods under ADR/RID, IMDG, or IATA for laboratory quantities of 0.9% NaCl solution.

15- Regulatory Information

This product is not classified as hazardous according to:

Globally Harmonized System of Classification and Labelling of Chemicals
EU Regulation (EC) No 1272/2008

16- Other Information

For In-Vitro use only.

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

The information in this MSDS is based on current and reliable sources but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products.

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.