

## **SAFETY DATA SHEET**

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS),  
Tenth Revised Edition UNITED NATIONS  
New York and Geneva, 2023

### **Sodium Chloride Inhalation Solution, USP**

#### **1. IDENTIFICATION**

**GHS Product identifier:** Sodium Chloride Inhalation Solution, USP

**Product code:** #

**Chemical Description:** Sodium chloride

**Other means of identification:**

**Recommended use of the chemical:** Used to produce sputum from the mouth to help improve lung function or to collect sputum for medical testing. This medication may also be used to dilute other medications inhaled through a nebulizer.

**Restrictions on use:** The product should be used only for the above-mentioned uses and may not be used for any other purpose than stated above.  
Refer to the product insert and/or prescribing information for restrictions on use and contraindications.

**Manufactured by:**

Mankind Pharma Ltd.,  
Unit III, Opp. Dental College, Rampur Ghat,  
Teh. -Paonta Sahib (HP-173025), India.  
CIN No.: L74899DL1991PLC044843

**Emergency phone number: +91 1704227600**

#### **2. HAZARDS IDENTIFICATION**

**Classification**

**Globally Harmonized System, UN (GHS)**

**Labeling**

**Globally Harmonized System, UN (GHS)**

<b>Classification</b>	
<b>Signal Word</b>	<b>None</b>
<b>Hazard Statements:</b>	<b>None</b>
<b>Precautionary Statements:</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</p> <p>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell</p> <p>P264 Wash thoroughly after handling</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P273: Avoid release to the environment</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P391:Collect spillage</p>

**Other hazards which do not result in classification: None.**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Sodium chloride inhalation solution

Hazardous ingredients	CAS	Content
Sodium Chloride	7647-14-5	0.9% -7.0%
Water for injection	7732-18-5	q. s. to 1 mL

### 4. FIRST-AID MEASURES

#### Inhalation

Remove person to fresh air, and if breathing stops, use artificial respiration. Contact physician.

#### Skin contact

Remove all contaminated clothing and wash skin with copious amounts of water for at least 20 minutes. Contact physician if skin becomes irritated.

#### Eye contact

Rinse immediately with copious amounts of water for at least 20 minutes. Contact a physician.

#### Ingestion

Flush mouth out with water, drink several glasses of water. Never give anything by mouth if unconscious or having convulsions. Obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

#### Fire extinguishing agents

Dry Chemical Foam, Carbon dioxide, Water spray or alcohol-resistant foam.

#### Fire/explosion hazard

Explosion occurs when molten salt, i.e., sodium chloride/ at 1100 °C in accidental contact with water.

#### Specific hazards arising from the mixture

None.

#### Personal protection

Self-contained breathing apparatus.

#### Special exposure hazards

If heated to high temperatures, sodium chloride salt evolves a vapor irritating to the eyes. No hazard from the mixture.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal protection

Goggles, gloves, protective clothing, respiratory protection.  
Remove ignition sources and provide sufficient ventilation.

#### Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

#### Spillage procedure

Clean up any spills as soon as possible.

## 7. HANDLING AND STORAGE

### Handling

No special protective equipment or procedures are required in the clinical or home environment.

### Fire precautions

Avoid ignition sources.

Keep away from heat/sparks/open flames/hot surfaces.

### Storage facilities

Store between 59° and 86° F. Discard if solution becomes discolored. Retain in carton until time of use. Protect from light.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure limit values

**Components with occupational exposure limits – Data not available**

### Occupational exposure controls

#### Appropriate engineering controls

In the manufacturing plant, provide adequate ventilation for the raw material handling. Use adequate personal protective equipment e.g. NIOSH-approved respirators, goggles or safety glasses, gloves and protective clothing. Ensure training in the handling of chemical material and use current Material Safety Data Sheets.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Respiratory protection

No respiratory protection required during normal handling.

#### Hand protection

Gloves are not required under normal handling conditions.

#### Eye protection

Avoid contact with the eye. Workers should wear goggles or adequate eye protection if splash hazard exists. No special controls or personal protection required under conditions of intended use. In the event of a bulk spill, appropriate eye protection should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear colourless solution

**Form:** Aqueous solution

**Colour:** Colourless solution

**Odour:** Odourless

**pH:** 7.0

**Flash point:** Not applicable

**Specific gravity:** 1.0 gm/cm<sup>3</sup>

**n-Octanol/Water Partition Coefficient:** not tested

**Solubility:** Soluble in water. (358 g/l at 20°C (68°F))

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

Stable under recommended storage conditions. Avoid extreme heat or cold. Do not freeze.

### Hazardous decomposition products

None known

## 11. TOXICOLOGICAL INFORMATION

Toxicological information refers to raw materials only. Concentrations and toxicological effects are substantially reduced in the product.

### Acute toxicity - Sodium chloride

Acute oral toxicity (LD<sub>50</sub>): 3550 mg/kg (oral rat)

LC<sub>50</sub> Inhalation – Rat: > 42,000 mg/m<sup>3</sup> (1h)

LD<sub>50</sub> Dermal – Rabbit: > 10,000 mg/kg

**Mixture is not classified for acute toxicity.**

### Primary Irritation (Skin/eyes) – Sodium chloride

Eye - Sodium chloride substance Category 2

Skin – No significant effects, May cause irritation. Substance not categorized.

**Mixture not classified for skin or eye irritation.**

**Respiratory or Skin sensitization – None**

**Germ cell mutagenicity – None**

**Carcinogenicity – Not carcinogenic**

**Reproductive effects – None**

**Specific target organ toxicity single exposure – UN GHS • Classification criteria not met.**

**Specific target repeated exposure – UN GHS • Classification criteria not met.**

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Toxicity to fish

LC<sub>50</sub> – Lepomis macrochirus (Bluegill): 5,840 mg/l (96 h)

#### Toxicity to daphnia and other aquatic invertebrates

NOEC – Daphnia (water flea): 1,500 mg/l (7 d)

LC<sub>50</sub> – Daphnia magna (Water flea): 1,661 mg/l (48 h)

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

**Mixture is not classified for aquatic toxicity.**

### Additional information

Do not discharge product uncontrolled into the environment.

### 13. DISPOSAL CONSIDERATIONS

#### Product disposal

The method typically used is incineration.

#### Contaminated packaging

Contaminated, empty containers must be disposed of as chemical waste.

### 14. TRANSPORT INFORMATION

Land transport US DOT - Not classified as a dangerous good under transport regulations

Sea transport IMDG - Not classified as a dangerous good under transport regulations.

Air transport IATA/ICAO - Not classified as a dangerous good under transport regulations.

### 15. REGULATORY INFORMATION

#### CLASSIFICATION AND LABELLING

Compliance with following regulations:

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS), UNECE 2003 as amended.
- UN Recommendations on the Transport of Dangerous Goods, UNECE 2009

### 16. OTHER INFORMATION

#### Recommended restrictions on use

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

#### MSDS Changes

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