

SODIUM CHLORIDE- sodium chloride injection, solution, concentrate
Hospira, Inc.

CONCENTRATE
<i>CAUTION: MUST BE DILUTED FOR I.V. USE</i>

14.6%

Sodium Chloride Injection, USP

Rx

only

50 mEq/20 mL or 100 mEq/40 mL

(2.5 mEq/mL)

Additive Solution

Concentrated Solution —

For use only after dilution with compatible I.V. fluids to correct sodium deficiency when oral replacement is not feasible.

Plastic Vial

DESCRIPTION

14.6% Sodium Chloride Injection, USP Additive Solution is a sterile, nonpyrogenic, concentrated solution for intravenous administration **ONLY AFTER DILUTION** to replenish electrolytes. The preparations contain either 2.92 or 5.84 g of sodium chloride (50 or 100 mEq each of Na⁺ and Cl⁻) in Water for Injection, USP. The solution contains no bacteriostat, antimicrobial agent or added buffer; pH 4.8 (4.5 to 7.0). May contain hydrochloric acid for pH adjustment. The osmolar concentration is 5 mOsmol/mL (calc.); specific gravity is 1.10.

Sodium Chloride, USP is chemically designated NaCl, a white crystalline compound freely soluble in water.

The semi-rigid material used for the plastic vials is fabricated from a specially formulated polyolefin. It is a copolymer of ethylene and propylene. The safety of the plastic has been confirmed by tests in animals according to USP biological standards for plastic containers. The container requires no vapor barrier to maintain the proper drug concentration.

CLINICAL PHARMACOLOGY

Sodium chloride in water dissociates to provide sodium (Na⁺) and chloride (Cl⁻) ions. These ions are normal constituents of the body fluids (principally extracellular) and are essential for maintaining electrolyte balance.

Sodium is the principal cation of extracellular fluid. It comprises more than 90% of the total cations at its normal plasma concentration of approximately 142 mEq/liter. While the sodium ion can diffuse across cell membranes, intracellular sodium is maintained at a much lower concentration than extracellular sodium through the expenditure of energy by the cell (so called "sodium cation pump"). Loss of intracellular potassium ion is usually accompanied by an increase in intracellular sodium ion.

When serum sodium concentration is low, the secretion of antidiuretic hormone (ADH) by the pituitary is inhibited, thereby preventing water reabsorption by the distal renal tubules. On the other hand, adrenal secretion of aldosterone increases renal tubular reabsorption of sodium in an effort to re-establish normal serum sodium concentration.

Chloride (Cl⁻) has an integral role in buffering action when oxygen and carbon dioxide exchange

occurs in the red blood cells.

The distribution and excretion of sodium (Na^+) and chloride (Cl^-) are largely under the control of the kidney which maintains a balance between intake and output.

INDICATIONS AND USAGE

14.6% Sodium Chloride Injection, USP Additive Solution is indicated for parenteral restoration of sodium ion in patients with restricted oral intake. Sodium replacement is specifically indicated in patients with hyponatremia or low salt syndrome. 14.6% Sodium Chloride Additive Solution may also be added to compatible carbohydrate solutions such as dextrose in water to provide electrolytes.

CONTRAINDICATIONS

14.6% Sodium Chloride Injection, USP Additive Solution is contraindicated in patients with hypernatremia or fluid retention.

WARNINGS

14.6% Sodium Chloride Injection, USP is hypertonic and must be diluted prior to administration. Inadvertent direct injection or absorption of concentrated sodium chloride solution may give rise to sudden hypernatremia and such complications as cardiovascular shock, central nervous system disorders, extensive hemolysis, cortical necrosis of the kidneys and severe local tissue necrosis (if administered extravascularly).

Solutions containing sodium ions should be used with great care, if at all, in patients with congestive heart failure, severe renal insufficiency and in clinical states in which there exists edema with sodium retention.

In patients with diminished renal function, administration of solutions containing sodium may result in sodium retention.

The intravenous administration of this solution (after appropriate dilution) can cause fluid and/or solute overload resulting in dilution of other serum electrolyte concentrations, overhydration, congested states or pulmonary edema.

Excessive administration of potassium free solutions may result in significant hypokalemia.

WARNING: This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if kidney function is impaired. Premature neonates are particularly at risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions, which contain aluminum.

Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 mcg/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration.

PRECAUTIONS

14.6% Sodium Chloride Injection, USP Additive Solution must be diluted before infusion to avoid a sudden increase in the level of plasma sodium. Too rapid administration should be avoided.

Special caution should be used in administering sodium containing solutions to patients with severe renal impairment, cirrhosis of the liver, cardiac failure, or other edematous or sodium-retaining states.

Clinical evaluation and periodic laboratory determinations are necessary to monitor changes in fluid balance, electrolyte concentrations, and acid-base balance during prolonged parenteral therapy or

whenever the condition of the patient warrants such evaluation.

Caution must be exercised in the administration of parenteral fluids, especially those containing sodium ions, to patients receiving corticosteroids or corticotropin.

Do not use unless the solution is clear and seal is intact. Discard unused portion.

Pregnancy

Animal reproduction studies have not been conducted with sodium chloride. It is also not known whether sodium chloride can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. Sodium chloride should be given to a pregnant woman only if clearly needed.

Geriatric Use

An evaluation of current literature revealed no clinical experience identifying differences in response between elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

This drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

Pediatric Use

The safety and effectiveness of 14.6% Sodium Chloride Injection, USP Additive Solution have not been established. Its limited use in pediatric patients has been inadequate to fully define proper dosage and limitations for use.

ADVERSE REACTIONS

Sodium overload can occur with intravenous infusion of excessive amounts of sodium-containing solutions. (See **WARNINGS** and **PRECAUTIONS**.)

OVERDOSAGE

In the event of overhydration or solute overload, re-evaluate the patient and institute appropriate corrective measures. (See **WARNINGS** and **PRECAUTIONS**.)

DOSAGE AND ADMINISTRATION

14.6% Sodium Chloride Injection, USP Additive Solution is administered intravenously *only after addition to a larger volume of fluid*.

The dose, dilution and rate of injection are dependent upon the individual needs of each patient.

All or part of the contents of one or more additive containers may be added to an intravenous solution container. Concentrations of up to 5% sodium chloride have been administered.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. (See **PRECAUTIONS**.)

HOW SUPPLIED

14.6% Sodium Chloride Injection, USP Additive Solution is supplied as the following:

Unit of Sale	Concentration	Each
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NDC 0409-6657-73 Tray of 25	50 mEq/20 mL (2.5 mEq/mL)	NDC 0409-6657-01 20 mL Single-dose Plastic Fliptop Vial
NDC 0409-6660-75 Tray of 25	100 mEq/40 mL (2.5 mEq/mL)	NDC 0409-6660-01 40 mL Single-dose Plastic Fliptop Vial

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LAB-1099-1.0

9/2017

PRINCIPAL DISPLAY PANEL - 20 mL Vial Label

20 mL Single-dose

CONCENTRATE

CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE

14.6%

Sodium Chloride

Injection, USP

50 mEq/20 mL (2.5 mEq/mL)

20 mL Single-dose


CONCENTRATE
CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE

14.6%
Sodium Chloride
Injection, USP
50 mEq/20 mL (2.5 mEq/mL)

Rx only

NDC 0409-6657-01

Each mL contains sodium chloride 146 mg. May contain HCl for pH adjustment. 5 mOsmol/mL (calc). pH 4.8 (4.5 to 7.0). Sterile, nonpyrogenic. Use only if clear and seal is intact and undamaged. Cleanse stopper with antiseptic. Contains no bacteriostat; use promptly; discard unused portion. Mix thoroughly after dilution. Usual dosage: See Insert. Contains no more than 100 micrograms/Liter of aluminum.

Distributed by Hospira, Inc.
Lake Forest, IL 60045 USA RL-7100 

LOT/EXP Area (SVP)

PRINCIPAL DISPLAY PANEL - 20 mL Vial Tray

CONCENTRATE

CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE.

20 mL Single-dose

NDC 0409-6657-73

Contains 25 of NDC 0409-6657-01

Rx only

14.6% Sodium Chloride
 Injection, USP
 50 mEq/20 mL (2.5 mEq/mL)
 Hospira

CONCENTRATE

CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE. **20 mL** Single-dose

14.6% Sodium Chloride
 Injection, USP
50 mEq/20 mL (2.5 mEq/mL)

NDC 0409-6657-73
 Contains 25 of NDC 0409-6657-01
 Rx only




(01) 10304096657733

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Use Aseptic Technique
 Remove cover from Flipstop vial and cleanse stopper with antiseptic.

With Sterile Syringe and Needle:

- Aspirate desired portion of vial contents and add to suitable container.
- Discard any remaining fluid in Flipstop vial.

Each mL contains sodium chloride 14.6 mg. May contain hydrochloric acid for pH adjustment. 5 mOsmol/mL (calc.) pH 4.8 (4.5 to 7.0). Sterile, non-pyrogenic. Usual dosage: See insert.

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Use only if clear and seal is intact and undamaged. Cleanse stopper with antiseptic. Aseptically add to a suitable solution in intravenous container. Contains no bacteriostats; use promptly; discard unused portion. Mix thoroughly after dilution.

CONCENTRATE

CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE. **20 mL** Single-dose
 Rx only

25 Units/NDC 0409-6657-73
 CA-7097




GTIN 10304096657733
 LOT #####
 SN #####
 EXP DMMYYYY

14.6% Sodium Chloride
 Injection, USP
50 mEq/20 mL (2.5 mEq/mL)

PRINCIPAL DISPLAY PANEL - 40 mL Vial Label

40 mL Single-dose

CONCENTRATE


CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE


14.6%

Sodium Chloride

Injection, USP

100 mEq/40 mL (2.5 mEq/mL)

40 mL Single-dose	Rx only	NDC 0409-6660-01
CONCENTRATE	Each mL contains sodium chloride 146 mg. May contain HCl for pH adjustment. 5 mOsmol/mL (calc). pH 4.8 (4.5 to 7.0). Sterile, nonpyrogenic. Use only if clear and seal is intact and undamaged. Cleanse stopper with antiseptic. Contains no bacteriostat; use promptly; discard unused portion. Mix thoroughly after dilution. Usual dosage: See insert. Contains no more than 100 micrograms/Liter of aluminum.	
<i>CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE</i>	Distributed by Hospira, Inc. Lake Forest, IL 60045 USA	
14.6% Sodium Chloride Injection, USP 100 mEq/40 mL (2.5 mEq/mL)	RL-7101	



Barcode

PRINCIPAL DISPLAY PANEL - 40 mL Vial Tray

CONCENTRATE

CAUTION: MUST BE DILUTED FOR INTRAVENOUS USE.

40 mL Single-dose

NDC 0409-6660-75

Contains 25 of NDC 0409-6660-01

Rx only

14.6% Sodium Chloride

Injection, USP

100 mEq/40 mL (2.5 mEq/mL)

Hospira



SODIUM CHLORIDE

sodium chloride injection, solution, concentrate

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-6657
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
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SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)	SODIUM CHLORIDE	2.92 g in 20 mL
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Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-6657-73	25 in 1 TRAY	10/18/2005	05/01/2018
1	NDC:0409-6657-01	20 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018897	10/18/2005	05/01/2018

SODIUM CHLORIDE

sodium chloride injection, solution, concentrate

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-6660
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)	SODIUM CHLORIDE	5.84 g in 40 mL

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-6660-75	25 in 1 TRAY	07/29/2005	
1	NDC:0409-6660-01	40 mL in 1 VIAL; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018897	07/29/2005	

Labeler - Hospira, Inc. (141588017)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		093132819	ANALYSIS(0409-6657, 0409-6660), LABEL(0409-6657, 0409-6660), MANUFACTURE(0409-6657, 0409-6660), PACK(0409-6657, 0409-6660)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		827731089	ANALYSIS(0409-6657, 0409-6660)

Establishment

Name	Address	ID/FEI	Business Operations
Pfizer Healthcare India Private Limited		860037912	ANALYSIS(0409-6657, 0409-6660), LABEL(0409-6657, 0409-6660), MANUFACTURE(0409-6657, 0409-6660), PACK(0409-6657, 0409-6660)

Revised: 10/2020

Hospira, Inc.