

SODIUM CHLORIDE- sodium chloride injection, solution
Fresenius Kabi USA, LLC

0.9% Sodium Chloride Injection, USP

Rx only

DESCRIPTION

0.9% Sodium Chloride Injection, USP solution is sterile and nonpyrogenic. It is a parenteral solution containing sodium chloride in water for injection intended for intravenous administration.

For 0.9% Sodium Chloride Injection, USP, each 100 mL contains 900 mg sodium chloride in water for injection. Electrolytes per 1,000 mL: sodium 154 mEq; chloride 154 mEq. The osmolarity is 308 mOsmo/L (calc.).

The pH in the 100 mL and smaller containers is 6.0; for the 250 mL and larger containers, the pH is 5.6. The pH range is 4.5 to 7.0 for all containers.

The solution contains no bacteriostat, antimicrobial agent or added buffer and is intended only as a single-dose injection. When smaller doses are required the unused portion should be discarded.

The solution is a parenteral fluid and electrolyte replenisher.

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

Water for injection, USP is chemically designated H₂O.

The flexible container is fabricated from a specially formulated non-plasticized, film containing polypropylene and thermoplastic elastomers (**freeflex**[®] bag). The amount of water that can permeate from the container into the overwrap is insufficient to affect the solution significantly. Solutions in contact with the flexible container can leach out certain of the container's chemical components in very small amounts within the expiration period. The suitability of the container material has been confirmed by tests in animals according to USP biological tests for plastic containers.

CLINICAL PHARMACOLOGY

When administered intravenously, the solution provides a source of water and electrolytes.

Solutions which provide combinations of hypotonic or isotonic concentrations of sodium chloride are suitable for parenteral maintenance or replacement of water and electrolyte requirements.

Isotonic concentrations of sodium chloride are suitable for parenteral replacement of chloride losses that exceed or equal the sodium loss. Hypotonic concentrations of sodium chloride are suited for parenteral maintenance of water requirements when only

small quantities of salt are desired. A hypertonic concentration of sodium chloride may be used to repair severe salt depletion syndrome.

Sodium chloride in water dissociates to provide sodium (Na^+) and chloride (Cl^-) ions. Sodium (Na^+) is the principal cation of the extracellular fluid and plays a large part in the therapy of fluid and electrolyte disturbances. 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.

Water is an essential constituent of all body tissues and accounts for approximately 70% of total body weight. Average normal adult daily requirements range from two to three liters (1.0 to 1.5 liters each for insensible water loss by perspiration and urine production).

Water balance is maintained by various regulatory mechanisms. Water distribution depends primarily on the concentration of electrolytes in the body compartments and sodium (Na^+) plays a major role in maintaining physiologic equilibrium.

INDICATIONS AND USAGE

Intravenous solutions containing sodium chloride are indicated for parenteral replenishment of fluid and sodium chloride as required by the clinical condition of the patient.

CONTRAINDICATIONS

None known.

WARNINGS

Sodium Chloride Injection, USP 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.

The intravenous administration of Sodium Chloride Injection, USP can cause fluid and/or solute overloading resulting in dilution of serum electrolyte concentrations, overhydration, congested states or pulmonary edema.

The risk of dilutive states is inversely proportional to the electrolyte concentration of the injections. The risk of solute overload causing congested states with peripheral and pulmonary edema is directly proportional to the electrolyte concentrations of the injections.

In patients with diminished renal function, administration of Sodium Chloride Injection, USP may result in sodium retention.

PRECAUTIONS

General

Do not use plastic containers in series connections. Such use could result in air embolism due to residual air being drawn from the primary container before administration of the fluid from the secondary container is completed.

Pressurizing intravenous solutions contained in flexible plastic containers to increase flow rates can result in air embolism if the residual air in the container is not fully evacuated prior to administration.

Use of a vented intravenous administration set with the vent in the open position could result in air embolism. Vented intravenous administration sets with the vent in the open position should not be used with flexible plastic containers.

Laboratory Tests

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.

DRUG INTERACTIONS

Caution must be exercised in the administration of Sodium Chloride Injection, USP to patients receiving corticosteroids or corticotropin.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies have not been performed with Sodium Chloride Injection, USP to evaluate the potential for carcinogenesis, mutagenesis or impairment of fertility.

Pregnancy:

Teratogenic Effects

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

Labor and Delivery

Studies have not been conducted to evaluate the effects of Sodium Chloride Injection, USP on labor and delivery. Caution should be exercised when administering this drug during labor and delivery.

Nursing Mothers

It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Sodium Chloride Injection, USP is administered to a nursing mother.

Pediatric Use

The use of Sodium Chloride Injection, USP in pediatric patients is based on clinical

practice.

Plasma electrolyte concentrations should be closely monitored in the pediatric population as this population may have impaired ability to regulate fluids and electrolytes.

Geriatric Use

Clinical studies of Sodium Chloride Injection, USP did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses 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 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.

Do not administer unless solution is clear and container is undamaged. Discard unused portion.

ADVERSE REACTIONS

Reactions which may occur because of the solution or the technique of administration include febrile response, infection at the site of injection, venous thrombosis or phlebitis extending from the site of injection, extravasation and hypervolemia.

If an adverse reaction does occur, discontinue the infusion, evaluate the patient, institute appropriate therapeutic countermeasures and save the remainder of the fluid for examination if deemed necessary.

To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551-7176 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

OVERDOSAGE

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

DOSAGE AND ADMINISTRATION

The dose is dependent upon the age, weight and clinical condition of the patient.

Additives may be incompatible. Consult with pharmacist, if available. When introducing additives, use aseptic technique, mix thoroughly and do not store.

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

INSTRUCTIONS FOR USE

Check flexible container solution composition, lot number, and expiry date.

Do not remove solution container from its overwrap until immediately before use.

Use sterile equipment and aseptic technique.

To Open

1. Turn solution container over so that the text is face down. Using the pre-cut corner tabs, peel open the overwrap and remove solution container.
2. Check the solution container for leaks by squeezing firmly. If leaks are found, or if the seal is not intact, discard the solution.
3. Do not use if the solution is cloudy or a precipitate is present.

To Add Medication

1. Identify WHITE Additive Port with arrow pointing toward container.
2. Immediately before injecting additives, break off WHITE Additive Port Cap with the arrow pointing toward container.
3. Hold base of WHITE Additive Port horizontally.
4. Insert needle horizontally through the center of WHITE Additive Port's septum and inject additives.
5. Mix container contents thoroughly.

Preparation for Administration

1. Immediately before inserting the infusion set, break off BLUE Infusion Port Cap with the arrow pointing away from container.
2. Use a non-vented infusion set or close the air-inlet on a vented set.
3. Close the roller clamp of the infusion set.
4. Hold the base of BLUE Infusion Port.
5. Insert spike through BLUE Infusion Port by rotating wrist slightly until the spike is inserted.

NOTE: See full directions accompanying administration set.

WARNING: Do not use flexible container in series connections.

HOW SUPPLIED

0.9% Sodium Chloride Injection, USP is supplied in single-dose flexible plastic container as follows:

Product Code	Unit of Sale	Strength	Each
6B1285	65219-432-85 Package of 20	0.9% (9 mg/mL)	65219-432-20 500 mL in a 500 mL freeflex [®] bag
6B1450	65219-328-50 Package of 10	0.9% (9 mg/mL)	65219-328-10 1,000 mL in a 1,000 mL freeflex [®] bag

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing. The container closure is not made with natural rubber latex. Non-PVC, Non-DEHP, Sterile.

Manufactured for:



Lake Zurich, IL 60047 Made in USA

www.fresenius-kabi.com/us

451696B

Revised: June 2023

PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - Sodium Chloride 500 mL Bag Label

free flex[®]

500 mL

0.9% Sodium Chloride Injection, USP

For intravenous use.

Rx only

free flex[®]

500 mL

0.9% Sodium Chloride Injection, USP

For intravenous use.

Rx only

100

Each 100 mL contains: Sodium Chloride 900 mg
in water for injection.

Electrolytes per 1,000 mL:

Sodium 154 mEq

Chloride 154 mEq

308 mOsmol/LITER (CALC.) pH 4.5 to 7.0

200

Single Dose Only. Discard Unused Portion.

Additives may be incompatible. Consult with pharmacist. When introducing additives, use aseptic technique, mix thoroughly and do not store. Use only if solution is clear and container is undamaged. Must not be used in series connections.

undamaged. Must not be used in series connections.

300 **Usual dosage:** See package insert.

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing.

The container closure is not made with natural rubber latex.
Non-PVC, Non-DEHP, Sterile.

400

Mfd. for:



**FRESENIUS
KABI**

Lake Zurich, IL 60047
Made in USA

www.fresenius-kabi.com/us

403715



(01)00365219432203



EXP: YYMMDD

LOT: YYMULLXXX

mL

6B1285

PACKAGE LABEL - PRINCIPAL DISPLAY - 0.9% Sodium Chloride Bag Shipper Label

NDC 65219-432-85 6B1285

0.9% Sodium Chloride Injection, USP

500 mL x 20

NDC 65219-432-85

6B1285

0.9% Sodium Chloride Injection, USP
500 mL x 20

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing.

LOT

EXP

Manufactured for:



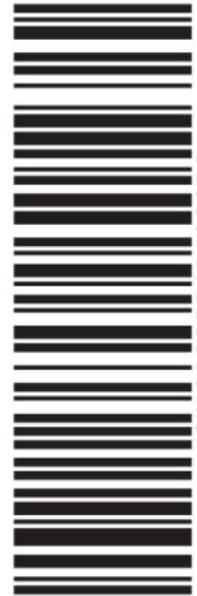
**FRESENIUS
KABI**

Lake Zurich, IL 60047

Made in USA

www.fresenius-kabi.com/us

QTY 20



(01)30365219432853

63802A

PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - Sodium Chloride 1,000 mL Bag Label

free flex[®]

1,000 mL

0.9% Sodium Chloride Injection, USP

For intravenous use.

Rx only

100

freeflex®

1,000 mL

0.9% Sodium Chloride Injection, USP

For intravenous use.

Rx only

200

Each 100 mL contains: Sodium Chloride 900 mg
in water for injection.

Electrolytes per 1,000 mL:

Sodium 154 mEq

Chloride 154 mEq

308 mOsmol/LITER (CALC.) pH 4.5 to 7.0

300

Single Dose Only. Discard Unused Portion.

Additives may be incompatible. Consult with pharmacist. When introducing additives, use aseptic technique, mix thoroughly and do not store. Use only if solution is clear and container is undamaged. Must not be used in series connections.

400

Usual dosage: See package insert.

STORE AT: 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing.

500

The container closure is not made with natural rubber latex. Non-PVC, Non-DEHP, Sterile.

600

R2



(01)00365219328100



EXP: MMYYYY

LOT: YYMULLXXX

700

Mfd. for:



**FRESENIUS
KABI**

Lake Zurich, IL 60047

Made in USA

www.fresenius-kabi.com/us

mL

6B1450

403993

**PACKAGE LABEL - PRINCIPAL DISPLAY PANEL - Sodium Chloride 1,000 mL Bag
Shipper Label**

NDC 65219-328-50 6B1450

0.9% Sodium Chloride Injection, USP

1,000 mL x 10

NDC 65219-328-50

6B1450

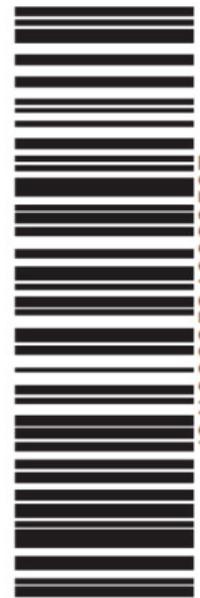
0.9% Sodium Chloride Injection, USP
1,000 mL x 10

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing.

QTY 10

LOT

EXP



(01)30365219328507

Manufactured for:



**FRESENIUS
KABI**

Lake Zurich, IL 60047

Made in USA

www.fresenius-kabi.com/us

63962

SODIUM CHLORIDE

sodium chloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-432
Route of Administration	INTRAVENOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of	Strength
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Ingredient Name		Strength	Strength	
SODIUM CHLORIDE (UNII: 451W47IQ8X) (SODIUM CATION - UNII:LYR4M0NH37, CHLORIDE ION - UNII:Q32ZN48698)		SODIUM CHLORIDE	9 mg in 1 mL	
Inactive Ingredients				
Ingredient Name		Strength		
WATER (UNII: 059QF0KO0R)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:65219-432-85	20 in 1 CASE	09/19/2017	
1	NDC:65219-432-20	500 mL in 1 BAG; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
ANDA	ANDA207310	09/19/2017		

SODIUM CHLORIDE				
sodium chloride injection, solution				
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:65219-328	
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	9 mg in 1 mL	
Inactive Ingredients				
Ingredient Name		Strength		
WATER (UNII: 059QF0KO0R)				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date

1	NDC:65219-328-50	10 in 1 CASE	09/11/2023	
1	NDC:65219-328-10	1000 mL in 1 BAG; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207310	09/19/2017	

Labeler - Fresenius Kabi USA, LLC (013547657)

Establishment

Name	Address	ID/FEI	Business Operations
Fresenius Medical Care North America		078401205	ANALYSIS(65219-432, 65219-328) , LABEL(65219-432, 65219-328) , MANUFACTURE(65219-432, 65219-328) , PACK(65219-432, 65219-328) , STERILIZE(65219-432, 65219-328)

Revised: 10/2023

Fresenius Kabi USA, LLC