

# SODIUM CHLORIDE 0.9% INJECTION

## SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product identifier** Sodium Chloride 0.9% Injection

**Other means of identification**

Synonyms Saline Solution \* Saline Flush

**Recommended use** Pharmaceutical product.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier  
/Distributor information**

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95943 Roissy CdG Cedex, France  
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### 2. HAZARD(S) IDENTIFICATION

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

Hazard symbol None.  
Signal word None.  
Hazard statement The mixture does not meet the criteria for classification.  
Precautionary statement  
Prevention Not assigned.  
Response Not assigned.  
Storage Not assigned.  
Disposal Not assigned.

**Hazard(s) not otherwise  
classified (HNOC)** None known.

**Supplemental information** None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixtures**

Chemical name	CAS number	%
Sodium chloride	7647-14-5	0.9
Water	7647-14-5	90 – 100 %

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. FIRST-AID MEASURES

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms  
/effects acute and delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention  
and special treatment needed** Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Firefighting equipment /instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	<p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

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## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Wash hands thoroughly after handling. Handle and open container with care. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures such as personal protective equipment</b>	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless.

**Odor** Odorless.

**Odor threshold** Not available

**pH** 4.5 - 7

**Melting point/freezing point** 32 °F (0 °C) estimated

**Initial boiling point and boiling range** 212 °F (100 °C) estimated

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

**Vapor pressure** 0.00001 hPa estimated

**Vapor density** Not available.

**Relative density** 2.165 g/cm<sup>3</sup> estimated

### Solubility(ies)

Solubility (water) Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

Density 2.17 g/cm<sup>3</sup> estimated.

Explosive properties Not explosive.

Flammability Not flammable.

Molecular formula NaCl

Oxidizing properties Not oxidizing.

Percent volatile 99.1 % estimated.

VOC 99.1 % estimated.

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## 10. STABILITY AND REACTIVITY

**Reactivity Chemical stability** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Possibility of hazardous reactions** Material is stable under normal conditions.  
No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Avoid contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Fire or excessive heat may produce hazardous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test results
Sodium chloride (CAS 7647-14-5) <u>Acute</u> Other - LD50	Rat	3 000 mg/kg

#### Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

#### Serious eye damage / eye irritation

Direct contact with eyes may cause temporary irritation.

#### Respiratory sensitization

Not a respiratory sensitizer.

#### Skin sensitization

This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall evaluation of carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

#### Specific target organ toxicity

##### - single exposure

Not classified.

##### - repeated exposure

Not classified.

#### Aspiration hazard

Not an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test results
Sodium chloride (CAS 7647-14-5) Aquatic - LC50	Fish Fathead minnow (Pimephales promelas)	7 400 mg/l, 96 hours

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

## 13. DISPOSAL CONSIDERATIONS

### Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

### Local disposal regulations

Dispose in accordance with all applicable regulations.

### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

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## 15. REGULATORY INFORMATION

<b>US federal regulations</b>	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Additional information is given in the Safety Data Sheet.
TSCA section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
Hazard categories	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
SARA 302 Extremely hazardous substance	Not listed
SARA 311/312 Hazardous chemical	No.
SARA 313 (TRI reporting)	Not regulated.
<b>Other federal regulations</b>	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.
<b>US state regulations</b>	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
US. Massachusetts RTK - Substance List	Not regulated.
US. New Jersey Worker and Community Right-to-Know Act	Not listed.
US. Pennsylvania Worker and Community Right-to-Know Law	Not listed.
US. Rhode Island RTK	Not regulated.

## International Inventories

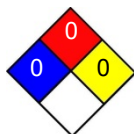
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Issue date** 24-May-2017  
**Revision date** -  
**Version #** 01  
**HMIS® ratings** Health: 0  
Flammability: 0  
Physical hazard: 0

### NFPA ratings



### Disclaimer

GUERBET cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.