

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

Revision Date 01-June-2022

Revision Number 0

#### 1. Identification of the Substance/Mixture and the Company/Undertaking

##### Product Identifier

**Product Name** Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

##### Other means of identification:

**Product Code** USP-S-0.5-BD1P-50, USP-S-1-BD1P-50

##### Synonyms

**Saline** Sodium chloride 0.9%, Normal saline

**Chemical Family** Mixture

##### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended use** Catheter flushing solution for use in laboratory animal research only.

**Restrictions on use** Not for Human Use. Contains no antimicrobial agents.

##### Details of the supplier of the safety data sheet:

**Manufacturer** Instech Laboratories, Inc.  
450 S. Gravers Road  
Plymouth Meeting, PA 19462  
Phone: 610-941-0132  
Fax: 610-941-0134  
Email: [orders@instechlabs.com](mailto:orders@instechlabs.com)

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**INSTECH****Sodium Chloride 0.9% (Normal Saline), USP  
Sterile Grade****2. Hazard(s) Identification**Classification of Substance or Mixture

<b>GHS - Classification</b>	Not classified as hazardous
<b>Physical hazards</b>	Not classified
<b>Health hazards</b>	Not classified
<b>OSHA defined hazards</b>	Not classified
<b>Label elements</b>	Not classified

**Physical Hazards**

<b>Explosives</b>	Not applicable
<b>Flammable gases</b>	Not applicable
<b>Flammable aerosols</b>	Not applicable
<b>Oxidizing gases</b>	Not applicable
<b>Gases under pressure</b>	Not applicable
<b>Flammable liquids</b>	Not applicable
<b>Flammable solids</b>	Not classified
<b>Self-reactive substances and mixtures</b>	Not applicable
<b>Pyrophoric liquids</b>	Not applicable
<b>Pyrophoric solids</b>	Not applicable
<b>Self-heating substances and mixtures</b>	Not applicable
<b>Substances and mixtures which, in contact with water, emit flammable gases</b>	Not applicable
<b>Oxidizing liquids</b>	Not applicable
<b>Oxidizing solids</b>	Not applicable
<b>Organic peroxides</b>	Not applicable
<b>Corrosive to metals</b>	Not applicable

**Human Health Hazards**

<b>Acute toxicity (Oral)</b>	Not applicable
<b>Acute toxicity (Dermal)</b>	Not applicable
<b>Acute toxicity (Inhalation: Gases)</b>	Not applicable
<b>Acute toxicity (Inhalation: Vapors)</b>	Not applicable
<b>Acute toxicity (Inhalation: Dusts)</b>	Not applicable

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

<b>Acute toxicity (Inhalation: Mists)</b>	Not applicable
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory sensitization</b>	No data available
<b>Skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Aspiration hazard</b>	No data available

#### Environmental Hazards

<b>Acute toxicity to aquatic environment</b>	No data available
<b>Chronic toxicity to the aquatic environment</b>	No data available

### 3. Composition/information on ingredients

#### Substance

Ingredients	CAS#	EC#	GHS Classification	%
Water for Injection	7732-18-5	231-791-2	Not Listed	99.10%
Sodium Chloride	7647-14-5	231-598-3	Not Listed	0.90%

### 4. First Aid Measures

#### Description of first aid measures

<b>General advice</b>	Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact and ingestion. First aid measures are not specific for Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade and do not imply that toxicity from the material is expected. If you feel respiratory symptoms or are unwell after exposure to Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade see a physician. Serious health should always be investigated because Sodium Chloride 0.9% (Normal Saline), USP alone is unlikely to cause these symptoms other than cough if inhaled, or if ingested or applied to skin.
<b>Inhalation</b>	Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. See medical advice if discomfort or irritation persists. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort, or vomiting persists.

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

**Skin** Take off contaminated clothing and shoes immediately. Wash affected area with soap and water. Clean contaminated clothing by washing before reuse. Seek medical attention if irritation or discomfort persists.

**Eye** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lenses if needed. Immediately get medical assistance.

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **5. Fire Fighting Measures**

**Suitable Extinguishing Media** As for primary cause of fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Special Hazards Arising from the Substance or Mixture**

**Hazardous combustion products** No data available

**Unsuitable extinguishing media** No data available

**Specific hazards arising from the chemical** No data available

**Explosion data** No data available

**Sensitivity to mechanical impact** No data available

**Sensitivity to static discharge** No data available

**Special protective equipment for fire-fighters** Firefighters should use NIOSH approved respiratory protection/ breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

#### 6. Accidental Release Measures

##### Personal precautions, protective equipment, and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

##### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Follow facility-specific procedures for spill response. When cleaning spills, absorb with an inert dry material and wear appropriate personal protective equipment. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

#### 7. Handling and Storage

##### Precautions for safe handling

**Advice on safe handling** Do not handle until all safety precautions have been read.  
Do not eat, drink, or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid contact with eyes, skin, and clothing.  
Wash hands thoroughly after handling.  
Releases to the environment should be avoided.  
Wash contaminated clothing before reuse.

##### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in a cool, dry place 15°C-30°C (59°F-86°F).  
Keep containers tightly closed in a dry, cool, and well-ventilated place.  
Protect from sunlight.  
Keep out of reach of children.  
Avoid excessive heat.  
Do not freeze.

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

#### 8. Exposure Control/Personal Protection

##### Control Parameters

##### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Chloride 0.9% for Injection (Normal Saline)	No data available	No data available	No data available

<b>Exposure control</b>	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate.
<b>Personal protection</b>	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and specific operational processes.
<b>Hand protection</b>	Impervious gloves (e.g., Nitrile, etc.) are recommended if skin contact with drug product is possible and for bulk processing operations. (Protective gloves must meet the standards in accordance with EN374, ASTM F1001 or international equivalent.)
<b>Eyes / face protection</b>	Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the standards in accordance with EN166, ANSI Z87.1 or international equivalent.)
<b>Skin and body protection</b>	Impervious disposable protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations. (Protective clothing must meet the standards in accordance with EN13982, ANSI 103 or international equivalent.)
<b>Respiratory protection</b>	No personal respiratory protective equipment is required.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes, or clothing.

#### 9. Physical and Chemical Properties

##### Information on basic physical and chemical properties

<b>Physical state</b>	Aqueous solution
<b>Visual appearance</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
<b>Molecular weight</b>	No data available	None known
<b>Specific gravity</b>	1.0 s.g.	None known
<b>Solvent solubility</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility</b>	Water	None known
<b>Insoluble</b>	No data available	None known
<b>pH</b>	4.5-7.0	None known
<b>Freezing/Melting point (°C)</b>	0°C (32°F) / No data available	None known
<b>Boiling point (°C)</b>	100°C (212°F)	None known
<b>Decomposition temperature (°C)</b>	No data available	None known
<b>Evaporation rate (Gram/s)</b>	No data available	None known
<b>Vapor pressure (kPa)</b>	No data available	None known
<b>Vapor density (g/mL)</b>	> 1	None known

#### 10. Stability and Reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	No data available.
<b>Incompatible materials</b>	Excessive heat.
<b>Hazardous decomposition products</b>	None known based on information supplied.
<b>Chemically stability</b>	Stable under normal conditions of use.
<b>Incompatibility with other substances</b>	No information available.

#### 11. Toxicological Information

##### Information on likely routes of exposure

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

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

<b>Symptoms</b>	Specific test data for the substance or mixture is not available.
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#### Acute toxicity

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/ eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target organ effects</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.
<b>Known clinical effects</b>	No information available.

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

#### 12. Ecological Information

**Environmental properties have not been investigated. Releases to the environment should be avoided.**

<b>Persistence and degradability</b>	Readily degradable in the environment.
<b>Bioaccumulation</b>	Does not significantly accumulate in organisms.
<b>Other adverse effects</b>	Based on existing data about the elimination/ degradation and bioaccumulation, potential longer-term damage to the environment is unlikely.

#### 13. Disposal Considerations

##### Waste treatment methods

<b>Waste from residues/unused products</b>	Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all materials according to applicable regulatory entities.
<b>Contaminated packaging</b>	Do not reuse empty containers.

#### 14. Transport Information

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

#### 15. Regulatory Information

##### International Inventories

<b>TSCA</b>	Not applicable
<b>DSL/NDSL (EU)</b>	Not applicable

##### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### Sodium Chloride 0.9% (Normal Saline), USP Sterile Grade

#### US Federal Regulations

**SARA 311/312 Hazard Categories** Not applicable

**CERCLA** Not applicable

#### US State Regulations

**California Proposition 65** Not applicable

**U.S. State Right-to-Know Regulations** Not applicable

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

### 16. Other Information

**Data Sources:** Publicly available toxicity information. Instech Laboratories, Inc is proprietary drug development information.

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

Instech Laboratories, Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document, there is no known information at this time.

### 17. Version History

Version History				
Version	Approved By	Revision Date	Description of Change	Author
0			N/A	Sterile Solutions Department

End of Safety Data Sheet