

Safety Data Sheet

Sodium Chloride 5M Solution

Section 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name: Sodium Chloride 5M

CAS#: 7647-14-5

RTECS: N/A

REACH Number: N/A

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

BioSpectra, Inc.

100 Majestic Way

Bangor, PA 18013

610-599-3400

1.4 Emergency Numbers

US & Canada: 1-800-424-9300

Outside the US & Canada: +1 703-527-3887

Section 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

Not Applicable.

2.2 GHS Label Element Including Precautionary Statements

Pictogram: Not Applicable.

Signal Word: Not Applicable.

Hazard Statement(s): Not Applicable.

Precautionary Statement(s): Not Applicable.

2.3 Hazards not classified or not covered by the HCS: Not Applicable.

Section 3 - Composition, Information on Ingredients

3.1 Substances

Component	Formula	CAS-No	Molecular Weight
Sodium Chloride	NaCl	7647-14-5	58.44 g/mol
Water	H ₂ O	7732-18-5	18.02 g/mol

Section 4 - First Aid Measures

4.1 Description of Necessary First Aid Measures

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin: Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

Ingestion: Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Note to Physician: Treat symptomatically.

4.2 Most Important Symptoms/Effects, Acute and Delayed:

Not Applicable.

4.3 Indication of Immediate Medical Attention and Special Treatment:

Not Applicable.

Section 5 - Firefighting Measures

5.1 Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical CO₂.

5.2 Specific Hazards Associated with this Chemical: Not known

5.3 Special Equipment/Precautions for Firefighters: No special advice

Section 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Not required

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so.

6.3 Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material.

Section 7 - Handling and Storage

7.1 Precautions for Safe Handling:

Always wear recommended personal protective equipment

7.2 Conditions for Storage Including any Incompatibilities:

Store in dry, cool and well-ventilated locations.

Section 8 - Exposure Controls, Personal Protection

8.1 Control Parameters:

Chemical does not contain any substances with occupational exposure limits.

8.2 Engineering Controls:

Ensure adequate ventilation, especially in confined areas.

8.3 Personal Protective Measures:

Eyes: Wear protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection in 29 CFR 1910.133 or European Standard EN166.

Hands: Wear impervious gloves.

Clothing: Wear appropriate protective clothing.

Respirators: In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9 – Physical and Chemical Properties

9.1 Chemical Property Information

Physical State: Liquid	Melting Point: Not Applicable.
Appearance: Not Applicable.	Boiling Point: Not Applicable.
Odor: Not Applicable.	Specific Gravity/Density: Not Applicable.
pH: 6.0-8.0	Solubility: Not Applicable.
Vapor Density: Not Applicable.	Molecular Weight: 58.44 g/mol
Viscosity: Not Applicable.	Molecular Formula: NaCl
Density: Not Applicable.	Decomposition Temperature: Not Applicable.
Vapor Pressure: Not Applicable.	Freezing/Melting Point: Not Applicable.

Section 10 - Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions.

10.2 Conditions to Avoid: No information available.

10.3 Incompatibilities with Other Materials: Strong oxidizing agents.

10.4 Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions – Hydrogen chloride gas, Sodium oxides.

Section 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50:

LD50 Oral- rat- No toxicology information is available.

LC50 Inhalation- rat- No toxicology information is available.

LD50 Dermal – rabbit- No toxicology information is available.

Carcinogenicity: Substance not listed.

Potential Health Effects: Serious Eye Damage/ Irritation: Skin

Corrosion/Irritation: Substance not listed.

Respiratory or Skin Sensitization: Substance not listed.

Epidemiology: Substance not listed.

Teratogenicity: Substance not listed.

Reproductive Effects: Substance not listed.

Neurotoxicity: Substance not listed.

Mutagenicity: Substance not listed.

Other Studies: Substance not listed.

RTECS: N/A

Section 12 - Ecological Information

12.1 Ecotoxicity:

No information available.

12.2 Persistence and Degradability:

No information available.

12.3 Bioaccumulative Potential:

No information available.

12.4 Mobility in Soil:

Not applicable.

12.5 Result of PBT and vPvB assessment:

N/A

12.6 Other Adverse Effects:

No information available.

Section 13 - Disposal Considerations

13.1 Disposal Methods:

Dispose of in a manner consistent with federal, state and local regulations.

Section 14 - Transport Information

	IATA	IMDG	DOT(US)
Shipping Name:	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

15.1 EHS Chemical Specific Regulations

OSHA Hazards: Substance not listed.

SARA: Section 302 (RQ): Substance not listed.

Section 311/312: Substance not listed.

Section 313 Components: Substance not listed.

Other Classifications: Substance not listed.

Massachusetts Right To Know Components: Substance not listed.

Pennsylvania Right To Know Components

Sodium Chloride CAS No. 7647-14-5

Water CAS No. 7732-18-5

New Jersey Right To Know Components

Sodium Chloride CAS No. 7647-14-5

Water CAS No. 7732-18-5

California Prop. 65 Components: This product does not contain any chemicals known in the state of California to cause cancer.

Section 16 - Additional Information

16.1 Hazard Ratings

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.