



Sodium Chloride 5M Solution

Safety Data Sheet
According to Regulation (EC) 1272/2008

Section 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name : Sodium Chloride 5M Solution
CAS# : 7647-14-5
RTECS : Not Applicable
REACH Number : Not Applicable

1.2 Recommended Use of the Chemical and Restrictions of Use

Chemical manufacturing

1.3 Supplier Details

Supplier : BioSpectra, Inc.
100 Majestic Way
Bangor, PA 18013
610-599-3400
ehs@biospectra.us

1.4 Emergency Numbers

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

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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.

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

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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	: Not Applicable

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:

Not applicable.

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 DangerousGoods	Not DangerousGoods	Not DangerousGoods
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

15.1 EHS Chemical Specific Regulations

OSHA Hazards : Substance not listed

SARA:

SARA: Section 302 (RQ) : Substance not listed

Section 311/312 : Substance not listed

Section 313 Components : Substance not listed

Other Classifications : Substance not listed

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STATE SPECIFIC:

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.