



**Boston BioProducts, Inc**

425 Fortune Blvd.

Milford, MA 01757

## **SAFETY DATA SHEET**

### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

- 1.1** PRODUCT NAME: Sodium Chloride (5 M)  
CATALOG #: BPS-407
- 1.2** RECOMMENDED USE: Research use or further manufacturing
- 1.3** COMPANY IDENTIFICATION: Boston BioProducts, Inc.  
425 Fortune Blvd., Milford, MA 01757
- 1.4** EMERGENCY CONTACT: 1-800-535-5053  
TOLL FREE NUMBER: 1-888-881-8691

### **SECTION 2 – HAZARD(S) IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Not hazardous

**Signal word:** None

**Hazard statement(s):** Not hazardous

#### **Precautionary statements:**

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children.
P501	Dispose of contents/ container to an approved waste disposal plant.

### **SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

**Composition:** 5 M Sodium Chloride.

<b>Component</b>	<b>CAS Number</b>	<b>Concentration</b>
Sodium Chloride	7647-14-5	29.22%
Water	7732-18-5	Rest

### **SECTION 4 - FIRST-AID MEASURES**

#### **4.1 Description of first aid measures**

**General advice:** Consult a doctor and show this safety data sheet.

- i. If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. In case of eye contact:** Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.



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**4.2 Most important symptoms and effects, both acute and delayed:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

**5.2 Special hazards arising from the substance or mixture:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulfur oxides.

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

**5.4 Further information:** No data available

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment, and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust, or gas.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

**6.4 Reference to other sections:** For required PPE see section 8. For disposal see section 13.

## **SECTION 7 - HANDLING AND STORAGE**

**7.1 Precautions for safe handling:** Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin, and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Keep in a dry place.

**7.3 Specific end use(s):** Use in a laboratory fume hood where possible.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

### **8.2 Exposure Controls/Personal Protection**

- i. **Respiratory Protection:** This product does not contain any hazardous materials and no protective equipment is needed.
- ii. **Control of environmental exposure:** None required.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**



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<b>Appearance</b>	Clear, Colorless, Liquid	<b>Vapor Pressure</b>	No Data Available
<b>Odor</b>	No Data Available	<b>Vapor Density</b>	No Data Available
<b>Odor Threshold</b>	No Data Available	<b>Relative Density</b>	2,16 g/cm <sup>3</sup> at 25 °C
<b>pH</b>	No Data Available	<b>Water Solubility</b>	317 g/l at 20 °C
<b>Melting / Freezing Point</b>	801 °C	<b>Partition Coefficient</b>	No Data Available
<b>Initial Boiling Point Range</b>	1.413 °C	<b>Auto-Ignition Temperature</b>	No Data Available
<b>Flash Point</b>	No Data Available	<b>Decomposition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available	<b>Viscosity</b>	No Data Available
<b>Flammability (Solid, Gas)</b>	No Data Available	<b>Explosive Properties</b>	No Data Available
<b>Upper / Lower Flammability or Explosive Limits</b>	No Data Available	<b>Oxidizing Properties</b>	No Data Available

#### **SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable under recommended storage conditions.

**Hazardous Decomposition Products/ Hazardous Polymerization:** No Data Available.

**Incompatibilities:** Strong Oxidizing Agent.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

##### **Acute Toxicity**

<b>Component</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Sodium Chloride	Not Regulated	Rabbit - > 10.000 mg/kg	Not Regulated

**Other adverse effects:** No data available

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

##### **Eco Toxicity:**

<b>Component</b>	<b>Freshwater Algae</b>	<b>Freshwater Fish</b>	<b>Microtox</b>	<b>Water flea</b>
Sodium Chloride	Nitzschia sp. - 2.430 mg/l - 120 h	Lepomis macrochirus (Bluegill) - 5.840 mg/l - 96 h	-	Daphnia magna (Water flea) - 874 mg/l - 48 h

**Persistence and degradability/ Bioaccumulative potential:** No data available

**Results of PBT and vPvB assessment/ Mobility in soil:** No data available

**Other adverse effects:** No data available

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product.

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.



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#### **SECTION 14 - TRANSPORT INFORMATION**

<b>DOT</b>	<b>TDG</b>	<b>IATA</b>	<b>IMDG/IMO</b>
Not regulated	Not regulated	Not regulated	Not regulated

#### **SECTION 15 - REGULATORY INFORMATION**

##### **INTERNATIONAL INVENTORIES**

<b>TSCA</b>	<b>DSL</b>	<b>NDSL</b>	<b>ELINCS</b>	<b>NLP</b>	<b>PICCS</b>	<b>ENCS</b>	<b>AICS</b>	<b>CHINA</b>	<b>KECL</b>
Listed	Listed	-	-		Listed	Listed	Listed	Listed	Listed

##### **USA FEDERAL REGULATION**

**SARA 313/SARA 311/312 HAZARDOUS CATEGORIZATION:** Not Hazard Class

**Clean Water Act/ Clean Air Act:** No Data Available

**Clean Air Act:** Not Applicable

**OSHA /TSCA 12(b):** Not Applicable

**California Proposition 65:** This product contains no Proposition 65 chemicals

##### **STATE RIGHT TO KNOW**

<b>Massachusetts</b>	<b>New Jersey</b>	<b>Pennsylvania</b>	<b>Illinois</b>	<b>Rhode Island</b>
-	Listed	Listed	-	-

##### **HMIS Rating**

<b>Health hazard</b>	<b>Chronic Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>
0	0	0	0

##### **NFPA Rating**

<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Reactivity Hazard</b>
0	0	0

##### **US DEPARTMENT OF TRANSPORTATION**

<b>REPORTABLE QUANTITY (RQ)</b>	<b>DOT MARINE POLLUTANT</b>	<b>DOT SEVER MARINE POLLUTANT</b>
No	No	No

**U.S. DEPARTMENT OF HOMELAND SECURITY:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**This SDS complies with the requirements of Regulation (EC).**

#### **SECTION 16 - OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Boston BioProducts, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is sold for laboratory research and development purposes use only.

**Revised: 2025**



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