



**Boston BioProducts, Inc**

425 Fortune Blvd.

Milford, MA 01757

## **SAFETY DATA SHEET**

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

- 1.1** PRODUCT NAME: Cefuroxime Sodium Salt (50mg/ml DMSO)  
CATALOG #: ABT-210
- 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)**

Skin irritation	Category 1
Eye irritation	Category 2
Flammable liquids	Category 3

#### **2.2 GHS Label elements, including Hazard and Precautionary Statement(s)**

##### **Pictogram**



**Signal word: Warning**

##### **Hazard statement(s):**

H226	Flammable liquid and vapor.
H315	Causes skin irritation
H317	May cause an allergic skin reaction.

##### **Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.



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P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

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

**Composition:** 50mg/mL of Cefuroxime, Sodium Salt

<b>Component</b>	<b>CAS Number</b>	<b>Concentration</b>
Cefuroxime, Sodium Salt	56238-63-2	5 %
Dimethyl Sulfoxide (DMSO)	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.

**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 (NOx).

**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:**

<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical Hazards</b>
2	2	1	N/A



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## **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.

#### **Exposure Guidelines**

<b>Component</b>	<b>ACGIH TVL</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>	<b>MEXICO OEL (TWA)</b>
-	-	-	-	-

#### **Legend**

**ACGIH** – American Conference of Governmental Industrial Hygienists

**OSHA** – Occupational Safety and Health Administration

**NIOSH IDLH:** NIOSH National Institute for Occupational Safety and Health

### **8.2 Exposure Controls**

- Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

### **8.3 Personal protective equipment**

- Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the



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dangerous substance at the specific workplace.

- iv. **Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. **Control of environmental exposure:** Do not let product enter drains

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

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

<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>	No Data Available
<b>pH</b>	No Data Available	<b>Water Solubility</b>	No Data Available
<b>Melting / Freezing Point</b>	No Data Available	<b>Partition Coefficient</b>	No Data Available
<b>Initial Boiling Point Range</b>	No Data Available	<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:** No data available

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **Acute Toxicity**

#### **Component Information**

<b>Component</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Cefuroxime, Sodium Salt	LD50 Oral - Rat - > 10,000 mg/kg	-	-
Dimethyl Sulfoxide (DMSO)	LD50 Oral - Rat - male and female - 28,300 mg/kg	LD50 Dermal - Rat - male and female - 40,000 mg/kg	LC0 Inhalation - Rat - male and female - 4 h - > 5.33 mg/l - dust/mist

**Toxicologically Synergistic Products:** The environmental impact of this product has not been fully investigated

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



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**Irritation:** Irritating to eyes

**Carcinogenicity:** The table below indicated whether each agency has any listed ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
-	-	-	-	-	-	-

## **SECTION 12 - ECOLOGICAL INFORMATION**

**Eco Toxicity:** The environmental impact of this product has not been fully investigated

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Cefuroxime, Sodium Salt	-	-	-	-
Dimethyl Sulfoxide (DMSO)	ErC50 - Pseudokirchneriella subcapitata (green algae) - 17,000 mg/l - 72 h	LC50 - Danio rerio (zebra fish) - > 25,000 mg/l - 96 h	EC50 - activated sludge - 10 - 100 mg/l - 30 min	EC50 - Daphnia magna (Water flea) - 24,600 mg/l - 48 h

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of BPT and vPvB assessment:** No data available

### **Acute Toxicity**

Component	Log Pow
Dimethyl sulfoxide	-1.35

**Results of PBT and vPvB assessment:** No data available

**Other adverse effects:** No data available

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

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA – U Series Wastes	RCRA – P series Wastes
-	-	-

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>
UN Number: 1993 Name: Dimethyl sulfoxide Hazard Class: None Packing Group: III	UN Number: 1993 Name: Dimethyl sulfoxide Hazard Class: None Packing Group: III	UN Number: 1993 Name: Dimethyl sulfoxide Hazard Class: None Packing Group: III	UN Number: 1993 Name: Dimethyl sulfoxide Hazard Class: None Packing Group: III

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

##### **INTERNATIONAL INVENTORIES**

<b>TCA</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

##### **USA FEDERAL REGULATIONS**

##### **SARA 311/312 HAZARDOUS CATEGORIZATION**

<b>Acute Health Hazard</b>	<b>Chronic Health Hazard</b>	<b>Fire Hazard</b>	<b>Sudden Release of Pressure Hazard</b>	<b>Reactive Hazard</b>
<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>1</b>

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

**Clean Air Act:** Not Applicable

**California Proposition 65:** This product contains Proposition 65 chemicals.

<b>Component</b>	<b>CAS#</b>	<b>Type of Toxicity</b>	<b>Listing Mechanism</b>	<b>Prop 65 NSRL or MADL (µg/day)</b>
-	-	-	-	-
-	-	-	-	-

**CERCLA:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response and Liability Act (CERCLA) (40 CRF 302)

<b>Component</b>	<b>Hazardous Substance RQs</b>	<b>CERCLA EHS RQs</b>
-	-	-

##### **HMIS Rating**

<b>Health hazard</b>	<b>Chronic Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>
<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>

##### **NFPA Rating**



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Health hazard	Fire Hazard	Reactivity Hazard
2	1	0

**STATE RIGHT TO KNOW**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
-	Listed	Listed	-	-

**US DEPARTMENT OF TRANSPORTATION**

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
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**