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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

Product identifier		
Product No.:	Product name:	Common name(s), synonym(s)
211443	Bottle Mueller Hinton Broth BBL 500G	No data available

**Other means of identification**  
**SDS number:** 088100179777

**Recommended restrictions**  
**Recommended use:** Laboratory Chemicals  
**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

**Manufacturer**  
Company Name: BD, Integrated Diagnostic Solutions  
Address: 7 Loveton Circle  
Sparks, MD 21152  
USA

Telephone: 1 844 823 5433  
Fax: not available  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

**Hazard Classification**  
Not classified

**Label Elements**  
**Hazard Symbol:** No symbol



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**Signal Word:** No signal word.

**Hazard Statement:** Not applicable  
**Precautionary Statements** Not applicable

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Carbonic acid sodium salt (1:2)	No data available.	497-19-8	2.0421%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

**General information:** Get medical attention if symptoms occur.

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.

**Skin Contact:** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.



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**Ingestion:** Get medical attention if symptoms occur.

**Personal Protection for First-aid Responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

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

**Treatment:** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water spray to keep fire-exposed containers cool.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** None known.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No unusual fire or explosion hazards noted.



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**Special protective equipment for firefighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**

No special precautionary health measures should be needed under anticipated conditions of use.

**Methods and material for containment and cleaning up:**

No specific clean-up procedure noted.

**Environmental Precautions:**

Avoid release to the environment.

**7. Handling and storage**

**Handling**

**Technical measures (e.g. Local and general ventilation):**

No special requirements under ordinary conditions of use and with adequate ventilation.

**Safe handling advice:**

When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:**

No data available.

**Storage**

**Safe storage conditions:**

Store in a cool, dry place. Keep container tightly closed.

**Safe packaging materials:**

No data available.



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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation.

### Individual protection measures, such as personal protective equipment

**General information:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

#### Skin Protection

**Hand Protection:** Chemical resistant gloves

**Other:** Wear a lab coat or similar protective clothing.

**Respiratory Protection:** Respiratory protection not required.

**Hygiene measures:** Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** Solid

**Form:** Solid

**Color:** According to product specification.

**Odor:** Characteristic

**Odor Threshold:** No data available.



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<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flammability:</b>	Not applicable
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	Not applicable
<b>Explosive limit - lower:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Self Ignition Temperature:</b>	Not determined.
<b>Decomposition Temperature:</b>	Not applicable
<b>pH:</b>	No data available.
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	Not determined.
<b>Kinematic viscosity:</b>	Not determined.
<b>Flow Time:</b>	Not applicable
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Bulk density:</b>	Not applicable
<b>Vapor density (air=1):</b>	Not applicable
<b>Particle characteristics</b>	
<b>Particle Size:</b>	Not applicable
<b>Particle Size Distribution:</b>	Not applicable
<b>Specific surface area:</b>	Not applicable
<b>Surface charge/Zeta potential:</b>	Not applicable
<b>Assessment:</b>	Not applicable
<b>Shape:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Surface treatment:</b>	Not applicable

**Other information**

**Metal Corrosion:** Non-corrosive per US Department of Transportation testing



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protocol.

## 10. Stability and reactivity

<b>Reactivity:</b>	Material is stable under normal conditions.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Not known.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Not known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

<b>Product:</b>	ATEmix: 137,113.76 mg/kg
<b>Components:</b>	
Carbonic acid sodium salt (1:2)	LD 50 (Rat): 2,800 mg/kg Experimental result, Key study

##### Dermal



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**Product:** ATEmix: 97,938.4 mg/kg  
**Components:**  
Carbonic acid sodium salt (1:2) LD 50 (Rabbit): > 2,000 mg/kg  
Experimental result, Key study

**Inhalation**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) LC 50 (Mouse): 1,200 mg/m3  
Aerosol, Experimental result, Supporting study LC 50 (Rat): 2,300 mg/m3  
Aerosol, Experimental result, Key study LC 50 (Guinea pig): 800 mg/m3  
Experimental result, Supporting study

**Repeated dose toxicity**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) in vivo (Rabbit): Not irritant  
in vivo (Rabbit): Not irritant

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) Highly irritating in vivo Rabbit, 48 hrs:

**Respiratory or Skin Sensitization**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Carcinogenicity**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.





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**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**In vivo**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Aspiration Hazard**



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**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Information on health hazards**

**Other hazards**  
**Product:** No data available.

**12. Ecological information**

**Ecotoxicity:**  
**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) LC 50 (Gambusia affinis, 48 h): 840 mg/l Experimental result, Supporting study  
LC 50 (Gambusia affinis, 24 h): 1,200 mg/l Experimental result, Supporting study  
NOAEL (Gambusia affinis, 96 h): 560 mg/l Experimental result, Supporting study  
LC 50 (Lepomis macrochirus, 96 h): 300 mg/l Experimental result, Key study  
LC 50 (Gambusia affinis, 96 h): 740 mg/l Experimental result, Supporting study

**Aquatic Invertebrates**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) EC 50 (Ceriodaphnia sp., 48 h): 200 - 227 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Toxicity to microorganisms**

**Product:** No data available.  
**Components:**



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Carbonic acid sodium salt (1:2) No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Bioaccumulative potential**



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**Bioconcentration Factor (BCF)**

**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Mobility in soil:**

**Product** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Results of PBT and vPvB assessment:**

**Product** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**Other adverse effects:**

**Other hazards**  
**Product:** No data available.  
**Components:**  
Carbonic acid sodium salt (1:2) No data available.

**13. Disposal considerations**

**General information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** No specific disposal method required.



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**Contaminated Packaging:** No data available.

**14. Transport information**

**DOTUN** Number: Not regulated.  
UN Proper Shipping Name: Not regulated.  
Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
Packing Group: Not regulated.  
Marine Pollutant: Not regulated.  
Limited quantity: Not regulated.  
Excepted quantity: Not regulated.  
  
Special precautions for user: Not regulated.

**IMDG**

UN Number: Not regulated.  
UN Proper Shipping Name: Not regulated.  
Transport Hazard Class(es)  
Class: Not regulated.  
Subsidiary risk: Not regulated.  
EmS No.: Not regulated.  
Packing Group: Not regulated.  
Environmental Hazards  
Marine Pollutant: Not regulated.  
  
Special precautions for user: Not regulated.



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**IATA**

UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
Packing Group:	Not regulated.
Environmental Hazards	
Marine pollutant:	Not regulated.
Special precautions for user:	Not regulated.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**  
None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**  
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity**  
Zinc sulphate

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Not classified

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**  
None present or none present in regulated quantities.



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**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**Chemical Identity**

Zinc sulphate

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable



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<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 08/03/2021

**Version #:** 1.1

**Further Information:** No data available.

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