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# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

| Product No.: | Product name: | Common name(s), synonym(s) |
|---|---|---|
| 237500 | Bacto™ Brain Heart Infusion | No data available |

**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: Business Unit Product Stewardship Team

E-mail: IDS_SDS@bd.com

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

## 2. Hazard(s) identification

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**Hazards for the product as supplied**
Not classified

**Hazard(s) not otherwise classified (HNOC):** None.

**Label Elements**

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** Not applicable

## 3. Composition/information on ingredients

**Mixtures**

| Chemical Identity | Common name and synonyms | CAS No./Unique ID | Content in percent (%)* | Trade Secret |
|---|---|---|---|---|
| Sulfurous acid, sodium salt (1:1) | No data available. | 7631-90-5* | 0.0666% | |

* Indicates that the identifier is a CAS No.
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

**Description of first aid measures**

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

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

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| | |
|---|---|
| **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. |
| **Ingestion:** | Get medical attention if symptoms occur. |
| **Personal Protection for First-aid Responders:** | No data available. |

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

| | |
|---|---|
| **Symptoms:** | No specific symptoms noted. |
| **Hazards:** | No data available. |

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

| | |
|---|---|
| **Treatment:** | IF exposed or concerned: Get medical advice/attention. |

## 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, foam, dry powder or carbon dioxide. Use fire-extinguishing media appropriate for surrounding materials. |
| **Unsuitable extinguishing media:** | Avoid water in straight hose stream; will scatter and spread fire. |
| **Special hazards arising from the substance or mixture:** | None known. |

**Special protective equipment and precautions for fire-fighters**

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

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| | |
|---|---|
| **Special protective equipment for fire-fighters:** | 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. |
| **Accidental release measures:** | No data available. |
| **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:** | No data available. |
| **Local/Total ventilation:** | No data available. |
| **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

| Components | Type | Form of exposure | Exposure Limit Values | | Source |
|---|---|---|---|---|---|
| Sulfurous acid, sodium salt (1:1) | TWA | | | 5 mg/m3 | OSHA Z1A (1989) |
| | TWA | | | 5 mg/m3 | TN OEL (06 2008) |
| | AN ESL | Particulate. | | 5 µg/m3 | TX ESL (07 2011) |
| | ST ESL | Particulate. | | 50 µg/m3 | TX ESL (07 2011) |
| | TWA PEL | | | 5 mg/m3 | US CA OEL (08 2010) |
| | TWA | | | 5 mg/m3 | ACGIH (12 2010) |
| | REL | | | 5 mg/m3 | NIOSH (2005) |

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

#### Biological Limit Values

No biological exposure limits noted for the ingredient(s).

**Appropriate Engineering Controls** — No special requirements under ordinary conditions of use and with adequate ventilation.

**Individual protection measures, such as personal protective equipment (PPE)**

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

**Skin Protection**

**Hand Protection:** — Material: Chemical resistant gloves

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| | |
|---|---|
| **Skin and Body Protection:** | 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. |
| **Melting Point:** | No data available. |
| **Boiling Point:** | No data available. |
| **Flammability:** | No data available. |

**Upper/lower limit on flammability or explosive limits**

| | |
|---|---|
| **Explosive limit - upper:** | No data available. |
| **Explosive limit - lower:** | No data available. |
| **Flash Point:** | Not applicable |
| **Auto-ignition temperature:** | No data available. |
| **Decomposition Temperature:** | No data available. |
| **pH:** | No data available. |

**Viscosity**

| | |
|---|---|
| **Dynamic viscosity:** | Not determined. |
| **Kinematic viscosity:** | Not determined. |

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| | |
|---|---|
| **Flow Time:** | No data available. |
| **Solubility(ies)** | |
| **Solubility in Water:** | Completely Soluble |
| **Solubility (other):** | No data available. |
| **Partition coefficient (n-octanol/water):** | No data available. |
| **Vapor pressure:** | No data available. |
| **Relative density:** | No data available. |
| **Density:** | No data available. |
| **Bulk density:** | No data available. |
| **Vapor density (air=1):** | No data available. |
| **Particle characteristics:** | No data available. |

**Other information**

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

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity:** | Material is stable under normal conditions. |
| **Chemical Stability:** | Material is stable under normal conditions. |
| **Possibility of hazardous reactions:** | Not known. |
| **Conditions to avoid:** | Avoid exposure to high temperatures or direct sunlight. |
| **Incompatible Materials:** | Strong oxidizer. |
| **Hazardous Decomposition Products:** | No data available. |

## 11. Toxicological information

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**General information:** No information about adverse effects due to exposure.

**Information on likely routes of exposure**

**Inhalation:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Skin Contact:** Negligible irritation to skin at ambient temperatures.

**Eye contact:** Do not get in eyes.

**Ingestion:** In the event of inhalation (ingestion), seek medical attention immediately

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

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

**Oral**
**Product:** Not classified for acute toxicity based on available data.

**Dermal**
**Product:** Not classified for acute toxicity based on available data.

**Inhalation**
**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**
Not classified based on available data.

**Skin Corrosion/Irritation**
Not classified based on available data.

**Serious Eye Damage/Eye Irritation**
Not classified based on available data.

**Respiratory or Skin Sensitization**

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Not classified based on available data.

**Carcinogenicity**
No experimental data available.

**Carcinogenicity - Assessment**
Not classified based on available data.

**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 1910.1001-1053), as amended:**
No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**
**In vitro**
Not classified based on available data.

**In vivo**
Not classified based on available data.

**Reproductive toxicity**
**Effects on fertility**
No experimental data available.

**Effects on fetal development**
No experimental data available.

**Reproductive toxicity - Assessment**
Not classified based on available data.

**Specific Target Organ Toxicity - Single Exposure**
Not classified based on available data.

**Specific Target Organ Toxicity - Repeated Exposure**
Not classified based on available data.

**Aspiration Hazard**

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Not classified based on available data.

**Information on health hazards**

**Other hazards**

**Product:** No data available.

## 12. Ecological information

**General information:** This material has not been tested for environmental effects.

**Ecotoxicity:**

**Toxicity to Aquatic Plants**

Not classified based on available data.

**Toxicity to microorganisms**

Not classified based on available data.

**Acute hazards to the aquatic environment:**

**Fish**

**Components:**

| | |
|---|---|
| Sulfurous acid, sodium salt (1:1) | LC 50, Oncorhynchus mykiss, 96 h, 177.8 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Supporting study<br>LC 50, Oncorhynchus mykiss, 96 h, 147 - 215 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Supporting study<br>LC 50, Danio rerio, 96 h, 464 - 1,000 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Supporting study<br>NOAEL, Danio rerio, 96 h, 215 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Supporting study<br>NOAEL, Leuciscus idus, 96 h, 215 mg/lStatic, Read-across from supporting substance (structural analogue or surrogate), Supporting study |

**Aquatic Invertebrates**

Not classified based on available data.

**Chronic hazards to the aquatic environment:**

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**Fish**
Not classified based on available data.

**Aquatic Invertebrates**
Not classified based on available data.

**Persistence and Degradability**
Not classified based on available data.

**Bioaccumulative potential**
Not classified based on available data.

**Mobility in soil:**
Not classified based on available data.

**Results of PBT and vPvB assessment:**
Not classified based on available data.

**Other adverse effects:**

**Additional ecological information**

**Product:** The dangerous properties of the product cannot be evaluated from the available data. Avoid release to the environment.

## 13. Disposal considerations

**General information:** Dispose of waste and residues in accordance with local authority requirements. The solid and liquid waste should be handled according to their nature and degree of hazardousness.

**Disposal methods:** Dispose of waste and residues in accordance with local authority requirements.

**Contaminated Packaging:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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## 14. Transport information

| | |
|---|---|
| **DOT**UN number or ID 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 or ID 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. |

**IATA**

| | |
|---|---|
| UN number or ID 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. |

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## 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 and 725, Subpt E)**
None present or none present in regulated quantities.

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

**Chemical Identity**
SODIUM PHOSPHATE, DIBASIC
SODIUM BISULFITE

**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.

**US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

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**
SODIUM PHOSPHATE, DIBASIC
SODIUM BISULFITE

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### US State Regulations

**US. California Proposition 65**
No ingredient requiring a warning under CA Prop 65.

### International regulations

**Montreal protocol**
Not applicable

**Stockholm convention**
Not applicable

**Rotterdam convention**
Not applicable

**Kyoto protocol**
Not applicable

## 16.Other information, including date of preparation or last revision

| | |
|---|---|
| **Version #:** | 2.2 |
| **Revision Date:** | 08/17/2026 |
| **Date of first report version:** | 04/18/2014 |

**Abbreviations and acronyms:**

| | |
|---|---|
| ACGIH: | US. ACGIH Threshold Limit Values, as amended |
| NIOSH/GUIDE: | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| TN OEL: | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended |
| TX ESL: | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended |
| US CA OEL: | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended |
| Z1A: | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |

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| | |
|---|---|
| ACGIH / TWA: | Time Weighted Average (TWA): |
| NIOSH/GUIDE / REL: | Recommended exposure limit (REL): |
| TN OEL / TWA: | Time Weighted Average (TWA): |
| TX ESL / ST ESL: | Short-Term ESL: |
| TX ESL / AN ESL: | Annual ESL: |
| US CA OEL / TWA PEL: | Time Weighted Average (TWA) Permissible Exposure Limit (PEL): |
| Z1A / TWA: | Time Weighted Average (TWA): |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Source of information:** European Chemicals Agency (ECHA): Information on Chemicals.

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**Further Information:** No data available.

**Disclaimer:**

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