



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
260300	Bottle Tryptose Phosphate Broth 500G	

### Other means of identification

**SDS number:** 088100178620

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

**Company Name:** BD Diagnostic Systems  
**Address:** 7 Loveton Circle  
21152 Sparks, MD USA  
**Telephone:** 1 410 771 0100 or 1 800 638 8663  
**Fax:**  
**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  
**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



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Phosphoric acid, sodium salt (1:3)		7601-54-9	0.8479%
Sulfurous acid, sodium salt (1:1)		7631-90-5	0.0509%

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

## 4. First-aid measures

<b>General information:</b>	Get medical attention if symptoms occur.
<b>Ingestion:</b>	Get medical attention if symptoms occur.
<b>Inhalation:</b>	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.
<b>Skin Contact:</b>	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.

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

**Symptoms:** 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, CO<sub>2</sub>, 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



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

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

**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.

**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**

**Precautions for safe handling:** When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place. Keep container tightly closed.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)
	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (12 2010)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

**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 Suitable gloves can be recommended by the glove supplier. Wash hands after contact.
  - 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**

**Appearance**

- Physical state:** solid
- Form:** solid
- Color:** According to product specification.
- Odor:** Characteristic
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.
- Initial boiling point and boiling range:** No data available.
- Flash Point:** Not applicable
- Evaporation rate:** No data available.
- Flammability (solid, gas):** No data available.
- Upper/lower limit on flammability or explosive limits**
  - Flammability limit - upper (%):** No data available.
  - Flammability limit - lower (%):** No data available.
  - Explosive limit - upper (%):** No data available.
  - Explosive limit - lower (%):** No data available.
- Vapor pressure:** No data available.
- Vapor density:** No data available.
- Relative density:** No data available.
- Solubility(ies)**
  - Solubility in water:** Completely Soluble



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Stable under normal temperature conditions and recommended use.
<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

**General information:** No data on possible toxicity effects have been found.

### Information on likely routes of exposure

<b>Ingestion:</b>	No harmful effects expected in amounts likely to be ingested by accident.
<b>Inhalation:</b>	Limited inhalation hazard at normal work temperatures.
<b>Skin Contact:</b>	Negligible irritation to skin at ambient temperatures.
<b>Eye contact:</b>	Do not get in eyes.

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

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



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

## Information on toxicological effects

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

#### Oral

**Product:** No data available.

#### Dermal

**Product:** ATEmix: 35,381.53 mg/kg

#### Inhalation

**Product:** No data available.

### Repeated dose toxicity

**Product:** No data available.

#### Specified substance(s):

Phosphoric acid, sodium salt (1:3) NOAEL (Dog(Female), Oral, 26 Weeks): 323 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study  
NOAEL (Rat(Male), Oral, 28 d): 2,470 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study

Sulfurous acid, sodium salt (1:1) NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Oral Experimental result, Supporting study  
NOAEL (Rat(Female), Oral, 8 Weeks): 70 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study  
NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study  
NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study  
NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study

### Skin Corrosion/Irritation

**Product:** No data available.

#### Specified substance(s):

Phosphoric acid, sodium salt (1:3) in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Supporting study

Sulfurous acid, sodium salt (1:1) in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study  
in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

Phosphoric acid, in vivo (Rabbit, 24 - 72 hrs): Category 1 EU  
sodium salt (1:3)

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

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

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** None known.



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No negative effects on the aquatic environment are known.

##### Aquatic Invertebrates

**Product:** No negative effects on the aquatic environment are known.

##### Toxicity to Aquatic Plants

**Product:** No negative effects on the aquatic environment are known.

### Persistence and Degradability

#### Biodegradation

**Product:** Expected to be readily biodegradable.

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.

#### Partition Coefficient n-octanol / water (log K<sub>ow</sub>)

**Product:** Log K<sub>ow</sub>: No data available.

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

Phosphoric acid, sodium salt (1:3) No data available.

Sulfurous acid, sodium salt (1:1) No data available.

**Other adverse effects:** The product is not expected to be hazardous to the environment.





**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

### 13. Disposal considerations

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

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

**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.

#### 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.



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

## 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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

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

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Phosphoric acid, sodium salt (1:2)	5000 lbs.
Phosphoric acid, sodium salt (1:3)	5000 lbs.
Sulfurous acid, sodium salt (1:1)	5000 lbs.

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

#### **Hazard categories**

Not classified  
Not classified

#### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

#### **SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Phosphoric acid, sodium salt (1:2)	5000 lbs.
Phosphoric acid, sodium salt (1:3)	5000 lbs.
Sulfurous acid, sodium salt (1:1)	5000 lbs.

#### **SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Phosphoric acid, sodium salt (1:3)	10000 lbs
Sulfurous acid, sodium salt (1:1)	10000 lbs

#### **SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

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

<u>Chemical Identity</u>	<u>Reportable quantity</u>
--------------------------	----------------------------



**Becton, Dickinson and Company**  
BD, Franklin Lakes, NJ  
07417 USA  
www.bd.com

---

Phosphoric acid, sodium salt (1:2)	Reportable quantity: 5000 lbs.
Phosphoric acid, sodium salt (1:3)	Reportable quantity: 5000 lbs.
Sulfurous acid, sodium salt (1:1)	Reportable quantity: 5000 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
None present or none present in regulated quantities.

#### US State Regulations

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

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

**Chemical Identity**

Phosphoric acid, sodium salt (1:2)

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Phosphoric acid, sodium salt (1:2)

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Phosphoric acid, sodium salt (1:2)

**US. Rhode Island RTK**

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

<b>16. Other information, including date of preparation or last revision</b>
--

**Issue Date:** 08/01/2018

**Version #:** 2.1

**Revision Information:** No data available.

**Further Information:** No data available.



**Becton, Dickinson and  
Company**  
BD, Franklin Lakes, NJ  
07417 USA  
[www.bd.com](http://www.bd.com)

---

**Disclaimer:**

Disclaimer:

The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.