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# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
213300	Bottle Potato Dextrose Agar 100G	

### Other means of identification

SDS number: 088100176327

### 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.



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### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Calcium chloride (CaCl <sub>2</sub> )		10043-52-4	0.1745%
Sulfurous acid, sodium salt (1:1)		7631-90-5	0.1302%
Iron trichloride		7705-08-0	0.026%
Sulfuric acid copper(2+) salt (1:1)		7758-98-7	0.0013%

\* 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.



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**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.

**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
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Calcium chloride (CaCl <sub>2</sub> )	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (07 2010)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (07 2010)
Sulfurous acid, sodium salt (1:1)	8 HR ACL	5 mg/m <sup>3</sup>	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	10 mg/m <sup>3</sup>	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (12 2010)
Iron trichloride - as Fe	TWA	1 mg/m <sup>3</sup>	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Iron trichloride - as Fe	STEL	2 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



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Iron trichloride - as Fe	TWA	1 mg/m 3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Iron trichloride - as Fe	TWA	1 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Iron trichloride - as Fe	15 MIN ACL	3 mg/m <sup>3</sup>	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	8 HR ACL	1 mg/m <sup>3</sup>	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Iron trichloride - as Fe	TWA	1.0 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Iron trichloride - as Fe	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (12 2010)
Sulfuric acid copper(2+) salt (1:1) - Dust and mist. - as Cu	TWA	1 mg/m 3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
Sulfuric acid copper(2+) salt (1:1) - Fume. - as Cu	TWA	0.2 mg/m 3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
Sulfuric acid copper(2+) salt (1:1) - Dust and mist. - as Cu	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)
Sulfuric acid copper(2+) salt (1:1) - Fume. - as Cu	TWA	0.2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (03 2014)

**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.

**Skin protection:**

Wear a lab coat or similar protective clothing.



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**Respiratory Protection:** Respiratory protection not required.  
**Hygiene measures:** Observe good industrial hygiene practices.

## 9. Physical and chemical properties

### Appearance

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



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<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

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident.

**Inhalation:** Limited inhalation hazard at normal work temperatures.

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

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

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

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

### Information on toxicological effects

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

**Oral**  
**Product:** No data available.

**Dermal**  
**Product:** No data available.

**Inhalation**  
**Product:** No data available.

**Repeated dose toxicity**  
**Product:** No data available.

**Specified substance(s):**  
Calcium chloride (CaCl<sub>2</sub>)  
NOAEL (Rat, Oral, 12 Months):  $\geq 20,000$  ppm(m) Oral  
NOAEL (Rat, Oral, 12 Weeks):  $\geq 1,000$  mg/kg Oral  
NOAEL (Rat(Female, Male), Oral, 12 Weeks):  $\geq 20,000$  ppm(m) Oral



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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

Iron trichloride LOAEL (Rat, Oral): 10 mg/l Oral Experimental result, Supporting study  
NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m) Oral Experimental result, Key study  
NOAEL (Rat, Oral): 1 mg/l Oral Experimental result, Supporting study  
NOAEL (Rat, Oral, 6 Months): 2 mg/kg Oral Experimental result, Supporting study

Sulfuric acid copper(2+) salt (1:1) NOAEL (Rat(Female, Male), Oral, 92 d): 1,000 ppm(m) Oral Experimental result, Key study  
LOAEL (Rat(Female, Male), Oral, 92 d): 2,000 ppm(m) Oral Experimental result, Key study  
LOAEL (Rat(Female, Male), Inhalation): 0.2 mg/m3 Inhalation Experimental result, Key study  
LOAEL (Mouse(Female, Male), Oral, 92 d): 2,000 ppm(m) Oral Experimental result, Key study  
NOAEL (Mouse(Female, Male), Oral, 92 d): 1,000 ppm(m) Oral Experimental result, Key study

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

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

Iron trichloride in vivo (Rabbit): not corrosive Experimental result, Supporting study

Sulfuric acid copper(2+) salt (1:1) in vivo (Rabbit): Not irritant Experimental result, Key study

**Serious Eye Damage/Eye Irritation**





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**Product:** No data available.

**Specified substance(s):**

Calcium chloride (CaCl <sub>2</sub> )	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Highly irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Moderately irritating
	in vivo (Rabbit, 24 - 72 hrs): Highly irritating
	in vivo (Rabbit, 24 - 72 hrs): Highly irritating
	in vivo (Rabbit, 24 - 72 hrs): Highly irritating
	in vivo (Rabbit, 24 - 72 hrs): Irritating

**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

**ACGIH Carcinogens:**

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.



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**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** None known.

**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.

**Specified substance(s):**



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Iron trichloride	Salmo trutta, Bioconcentration Factor (BCF): 38.2 - 663 Aquatic sediment Experimental result, Supporting study Salmo trutta, Bioconcentration Factor (BCF): 13.5 - 91.7 Aquatic sediment Experimental result, Supporting study Cyprinus carpio, Bioconcentration Factor (BCF): 2 - 2.9 Aquatic sediment Read-across based on grouping of substances (category approach), Key study Cyprinus carpio, Bioconcentration Factor (BCF): <= 20 Aquatic sediment Read-across based on grouping of substances (category approach), Key study Salmo trutta, Bioconcentration Factor (BCF): 0.8 - 3 Aquatic sediment Experimental result, Supporting study
Sulfuric acid copper(2+) salt (1:1)	Eisenia andrei, Bioconcentration Factor (BCF): 0.3 - 1 Terrestrial Experimental result, Weight of Evidence study

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

**Product:** Log Kow: No data available.

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

**Known or predicted distribution to environmental compartments**

Calcium chloride (CaCl <sub>2</sub> )	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Iron trichloride	No data available.
Sulfuric acid copper(2+) salt (1:1)	No data available.

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

**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.



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## 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.

### TDG

UN Number	Not regulated.
Proper Shipping Name	Not regulated.
Class	Not regulated.
Packing Group	Not regulated.
Label(s)	Not regulated.
Subsidiary risk label	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**

**Canada Federal Regulations**

**List of Toxic Substances (CEPA, Schedule 1)**

Not Regulated

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)**

**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**

NPRI PT5                      Not Regulated

**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**

NPRI                              Not Regulated

**Greenhouse Gases**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

**Precursor Control Regulations**

Not Regulated



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### International regulations

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 07/09/2018

**Version #:** 1.1

**Revision Information:** No data available.

**Further Information:** No data available.

**Disclaimer:** Disclaimer:  
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