



Version: 1.1  
Last revised date: 07/22/2021

Becton, Dickinson and Company  
BD, Franklin Lakes, NJ  
07417 USA  
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DF0007174



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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)
273000	Difco™ Brilliant Green Bile Broth 2%	No data available
274000	Difco™ Brilliant Green Bile Broth 2%	No data available

**Other means of identification**  
SDS number: 088100178640

**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**

**Health Hazards**  
Skin Corrosion/Irritation                      Category 2

Serious Eye Damage/Eye Irritation                      Category 2A  
Skin sensitizer                      Category 1  
Specific Target Organ Toxicity - Single Exposure                      Category 3

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H335: May cause respiratory irritation.

**Precautionary Statements**

**Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264: Wash face, hands and any exposed skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P363: Wash contaminated clothing before reuse.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P362: Take off contaminated clothing.  
P321: Specific treatment (see supplemental first aid instructions on this label).



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**Storage:** P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

**Disposal:** P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**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 (%) <sup>*</sup>
Bile, extract	No data available.	8008-63-7	44,1033%

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

**4. First-aid measures**



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**Description of necessary first-aid measures**

**General information:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction.

**Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if any discomfort continues.

**Skin Contact:** Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Get medical attention if any discomfort continues.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.

**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:** Symptoms may be delayed.

**Hazards:** Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction.

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

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

**5. Fire-fighting measures**



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

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

**Special protective equipment and precautions for firefighters**

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

**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:** Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

**Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.



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**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. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Read and follow manufacturer's recommendations.

**Contact avoidance measures:** No data available.

**Storage**

**Safe storage conditions:** Store in a cool, dry place. Keep container tightly closed. Keep from contact with oxidizing materials.

**Safe packaging materials:** No data available.

**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 and protective equipment to remove contaminants.

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



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#### 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:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**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:** Not applicable  
**Upper/lower limit on flammability or explosive limits**  
**Explosive limit - upper:** Not applicable  
**Explosive limit - lower:** Not applicable  
**Flash Point:** Not applicable  
**Self Ignition Temperature:** Not determined.  
**Decomposition Temperature:** Not applicable  
**pH:** No data available.  
**Viscosity**  
**Dynamic viscosity:** Not determined.  
**Kinematic viscosity:** Not determined.

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**Flow Time:** Not applicable  
**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:** Not applicable  
**Vapor density (air=1):** Not applicable  
**Particle characteristics**  
**Particle Size:** Not applicable  
**Particle Size Distribution:** Not applicable  
**Specific surface area:** Not applicable  
**Surface charge/Zeta potential:** Not applicable  
**Assessment:** Not applicable  
**Shape:** Not applicable  
**Crystallinity:** Not applicable  
**Surface treatment:** Not applicable

#### Other information

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

### 10. Stability and reactivity

**Reactivity:** No data available.  
**Chemical Stability:** Material is stable under normal conditions.  
**Possibility of hazardous reactions:** Material is stable under normal conditions.  
**Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.

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**Incompatible Materials:** Water reactive material. Metals. Avoid contact with oxidizers or reducing agents. Avoid contact with acids.

**Hazardous Decomposition Products:** Stable; however, may decompose if heated.

#### 11. Toxicological information

##### Information on likely routes of exposure

**Inhalation:** Vapors and spray mist may irritate throat and respiratory system and cause coughing. May cause irritation to the respiratory system.

**Skin Contact:** Skin irritation.

**Eye contact:** Causes eye irritation.

**Ingestion:** Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

##### Information on toxicological effects

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

**Oral**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Dermal**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Inhalation**  
**Product:** No data available.  
**Components:**  
Bile, extract

**Repeated dose toxicity**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.



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##### Skin Corrosion/Irritation

**Product:** No data available.  
**Components:**  
Bile, extract No data available.

##### Serious Eye Damage/Eye Irritation

**Product:** No data available.  
**Components:**  
Bile, extract No data available.

##### Respiratory or Skin Sensitization

**Product:** No data available.  
**Components:**  
Bile, extract No data available.

##### Carcinogenicity

**Product:** No data available.  
**Components:**  
Bile, extract No data available.

##### 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:**  
Bile, extract No data available.

**In vivo**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

##### Reproductive toxicity



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**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Aspiration Hazard**  
**Product:** No data available.  
**Components:**  
Bile, extract 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:**  
Bile, extract No data available.

**Aquatic Invertebrates**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

#### Toxicity to microorganisms

**Product:** No data available.  
**Components:**  
Bile, extract No data available.

#### Chronic hazards to the aquatic environment:

**Fish**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Aquatic Invertebrates**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**Toxicity to microorganisms**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

#### Persistence and Degradability

**Biodegradation**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

**BOD/COD Ratio**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)**  
**Product:** No data available.  
**Components:**  
Bile, extract No data available.



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**Partition Coefficient n-octanol / water (log Kow)**  
**Product:** Log Kow: No data available.  
**Components:**  
 Bile, extract No data available.

**Mobility in soil:**

**Product:** No data available.  
**Components:**  
 Bile, extract No data available.

**Results of PBT and vPvB assessment:**

**Product:** No data available.  
**Components:**  
 Bile, extract No data available.

**Other adverse effects:**

**Other hazards**  
**Product:** None known.  
**Components:**  
 Bile, extract No data available.

**13. Disposal considerations**

**General information:** This material and its container must be disposed of as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

**Disposal methods:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**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.

**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.



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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, 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):**  
None present or none present in regulated quantities.

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

#### Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

**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. 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)**  
None present or none present in regulated quantities.

### 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

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

**Issue Date:** 07/22/2021

**Version #:** 1.1

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

**Further Information:** No data available.





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