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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)
226810	Difco™ Nitrate Broth	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

### Hazard Classification

#### Health Hazards

Carcinogenicity Category 1B

### Label Elements

#### Hazard Symbol:





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**Signal Word:** Danger  
**Hazard Statement:** H350: May cause cancer.

**Precautionary Statements**

**Prevention:** P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P308+P313: IF exposed or concerned: Get medical advice/attention.

**Storage:** P405: Store locked up.

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

**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>
Nitric acid potassium salt (1:1)	No data available.	7757-79-1	11.0375%

<sup>\*</sup> 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. May cause cancer.



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<b>Inhalation:</b>	Move to fresh air. Get medical attention if any discomfort continues.
<b>Skin Contact:</b>	Flush contaminated area with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
<b>Ingestion:</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.
<b>Most important symptoms and effects, both acute and delayed Symptoms:</b>	Symptoms may be delayed.
<b>Hazards:</b>	May cause cancer.
<b>Indication of immediate medical attention and special treatment needed</b>	
<b>Treatment:</b>	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get immediate medical advice/attention.

## 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.
<b>Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media:</b>	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
<b>Unsuitable extinguishing media:</b>	Avoid water in straight hose stream; will scatter and spread fire.
<b>Special hazards arising from the substance or mixture:</b>	Fire or excessive heat may produce hazardous decomposition products.
<b>Special protective equipment and precautions for fire-fighters</b>	
<b>Special fire-fighting procedures:</b>	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:**

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

**Accidental release measures: Methods and material for containment and cleaning up:**

No data available.  
Stop leak if possible without any risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Report spills as required to appropriate authorities. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Avoid release to the environment.

**7. Handling and storage**

**Handling**

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

Adequate ventilation should be provided whenever the material is heated or mists are generated.

**Safe handling advice:**

Wash promptly with soap and water if skin becomes contaminated. 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 tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:**

No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.



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### Biological Limit Values

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

**Appropriate Engineering Controls** Adequate ventilation should be provided whenever the material is heated or mists are generated.

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

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

### Skin Protection

**Hand Protection:** Material: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**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:** Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

## 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  
**Self Ignition Temperature:** No data available.



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<b>Decomposition Temperature:</b>	No data available.
<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>	No data available.
<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>	No data available.
<b>Vapor density (air=1):</b>	No data available.

<b>Particle characteristics</b>	
<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.
<b>Specific surface area:</b>	No data available.
<b>Surface charge/Zeta potential:</b>	No data available.
<b>Shape:</b>	No data available.
<b>Crystallinity:</b>	No data available.
<b>Surface treatment:</b>	No data available.

**Other information**

<b>Metal Corrosion:</b>	Non-corrosive per US Department of Transportation testing protocol.
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**10. Stability and reactivity**

<b>Reactivity:</b>	Material is stable under normal conditions.
<b>Chemical Stability:</b>	Stable; however, may decompose if heated.
<b>Possibility of hazardous reactions:</b>	None under normal conditions. Stable; however, may decompose if heated.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.



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**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

**11. Toxicological information**

**Information on toxicological effects**

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

**Skin Contact:** May be absorbed through the skin.

**Eye contact:** Avoid contact with eyes.

**Ingestion:** Ingestion may cause irritation and malaise.

**Information on likely routes of exposure**

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

**Oral**

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

**Components:**  
Nitric acid potassium salt (1:1) No data available.

**Dermal**

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

**Components:**  
Nitric acid potassium salt (1:1) No data available.

**Inhalation**

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

**Components:**  
Nitric acid potassium salt (1:1) No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Components:**  
Nitric acid potassium salt (1:1) No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.



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**Components:**

Nitric acid potassium salt (1:1) No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Carcinogenicity**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

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

Nitric acid potassium salt (1:1) Overall evaluation: 2A. Probably carcinogenic to humans.

**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:**

Nitric acid potassium salt (1:1) No data available.

**In vivo**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**



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Nitric acid potassium salt (1:1) No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Aspiration Hazard**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) 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:**

Nitric acid potassium salt (1:1) LC 50 (Oncorhynchus mykiss, 96 h): > 98.9 mg/l Experimental result, Key study  
NOAEL (Oncorhynchus mykiss, 96 h): 98.9 mg/l Experimental result, Key study  
LC 50 (Poecilia reticulata, 96 h): 1,378 mg/l Experimental result, Key study  
LC 50 (Lepomis macrochirus, 96 h): > 2,400 - < 4,200 mg/l Not specified, Supporting study  
LC 50 (Guppy (Poecilia reticulata), 72 h): 200 mg/l Mortality

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) LC 50 (Pond snail (Lymnaea), 24 h): 1,941 mg/l Mortality  
LC 50 (Polychaete worm (Capitella capitata), 28 d): 2.65 mg/l Mortality  
LC 50 (Water flea (Daphnia magna), 4.2 d): 900 mg/l Mortality



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LC 50 (Water flea (Daphnia magna), 48 h): 490 mg/l Mortality  
LC 50 (Water flea (Daphnia magna), 72 h): 226 mg/l Mortality

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Components:**

Nitric acid potassium salt (1:1) No data available.

**BOD/COD Ratio**

**Product:** No data available.



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**Components:**

Nitric acid potassium salt No data available.  
(1:1)

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Components:**

Nitric acid potassium salt No data available.  
(1:1)

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

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

**Components:**

Nitric acid potassium salt No data available.  
(1:1)

**Mobility in soil:**

**Product** No data available.

**Components:**

Nitric acid potassium salt No data available.  
(1:1)

**Results of PBT and vPvB assessment:**

**Product** No data available.

**Components:**

Nitric acid potassium salt No data available.  
(1:1)

**Other adverse effects:**

**Other hazards**

**Product:** No data available.

**13. Disposal considerations**

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

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

Since emptied containers retain product residue, follow label warnings even after container is emptied.



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**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.

**14. Transport information**

**DOTUN** 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.

**15. Regulatory information**



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## 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**  
Carcinogenicity

**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

<u>Chemical Identity</u>	<u>% by weight</u>
Nitric acid potassium salt (1:1)	1.0%

**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

Chemical Identity  
protein hydrolyzates, animal (low hydrolysis)  
aqueous extract of beef tissue  
Nitric acid potassium salt (1:1)  
Carbonic acid sodium salt (1:2)



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**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Nitric acid potassium salt (1:1)

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Nitric acid potassium salt (1:1)

**US. Rhode Island RTK**

**Chemical Identity**

Nitric acid potassium salt (1:1)

**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:** 08/08/2022

**Version #:** 2.2

**Further Information:** No data available.

**Disclaimer:** Disclaimer:  
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