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SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Product identifier

| Product No.: | Product name: | Common name(s), synonym(s) |
|--------------|----------------------------|----------------------------|
| 211578 | Bottle SIM Medium BBL 500G | No data available |

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory Chemicals
Recommended restrictions: 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 identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable
Precautionary: Not applicable



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Statements

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 (%) [*] |
|----------------------------|--------------------------|------------|-------------------------------------|
| Ammonium iron(III) citrate | No data available. | 1185-57-5 | 0.1 - 1% |
| Zinc sulphate | No data available. | 7446-20-0 | 0.1 - 1% |

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Get medical attention if symptoms occur.

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

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: 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 and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.



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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, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: 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

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. Read and follow manufacturer's recommendations. Use personal protective equipment as required.



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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.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|------------------------------------|------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ammonium iron(III) citrate - as Fe | TWA | 1 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended |
| Ammonium iron(III) citrate - as Fe | STEL | 2 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) |
| | TWA | 1 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) |
| Ammonium iron(III) citrate - as Fe | | 1 mg/m3 | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended |
| Ammonium iron(III) citrate - as Fe | TWA | 1 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended |
| Ammonium iron(III) citrate - as Fe | 8 HR ACL | 1 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended |
| | 15 MIN ACL | 3 mg/m3 | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended |
| Ammonium iron(III) citrate - as Fe | TWA | 1.0 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended |
| Ammonium iron(III) citrate - as Fe | TWA | 1 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| Ammonium iron(III) citrate - as Fe | REL | 1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |

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

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



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Skin Protection
Hand Protection: Material: Chemical resistant gloves
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

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.

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

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

Particle Size: No data available.



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Particle Size Distribution: No data available.
Specific surface area: No data available.
Surface charge/Zeta potential: No data available.
Shape: No data available.
Crystallinity: No data available.
Surface treatment: 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 oxidizers.
Hazardous Decomposition Products: Not known.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

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.
Components:
Ammonium iron(III) citrate No data available.



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Zinc sulphate No data available.

Dermal

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

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Inhalation

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

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Repeated dose toxicity

Product: No data available.

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Carcinogenicity

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate 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



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

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.
Zinc sulphate No data available.

In vivo

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.
Zinc sulphate No data available.

Reproductive toxicity

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.
Zinc sulphate No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.
Zinc sulphate No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.
Zinc sulphate No data available.

Aspiration Hazard

Product: No data available.

Components:
Ammonium iron(III) citrate No data available.



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Zinc sulphate 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:

Ammonium iron(III) citrate No data available.

Zinc sulphate LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 0.103 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.



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Aquatic Invertebrates

Product: No data available.

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Ammonium iron(III) No data available.

citrate

Zinc sulphate No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

BOD/COD Ratio

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

Ammonium iron(III) citrate No data available.

Zinc sulphate No data available.

Mobility in soil:



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| | |
|----------------------------|--------------------|
| Product | No data available. |
| Components: | |
| Ammonium iron(III) citrate | No data available. |
| Zinc sulphate | No data available. |

Results of PBT and vPvB assessment:

| | |
|----------------------------|--------------------|
| Product | No data available. |
| Components: | |
| Ammonium iron(III) citrate | No data available. |
| Zinc sulphate | No data available. |

Other adverse effects:

| | |
|----------------------|--------------------|
| Other hazards | |
| Product: | No data available. |

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| 13. Disposal considerations |
|------------------------------------|

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information: | Dispose of waste and residues in accordance with local authority requirements. |
| Disposal methods: | No specific disposal method required. |
| 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

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.



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TDG

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

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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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

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements
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

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

Issue Date: 05/24/2022
Version #: 2.2
Further Information: No data available.



Version: 2.2
Last revised date:
05/24/2022

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Disclaimer:

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