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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)
211221	Bottle Levine EMB Agar BBL 500G	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

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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

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
eosin y D&C red dye	No data available.	17372-87-1	1.1674%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1327%
Ferrous sulfate heptahydrate	No data available.	7782-63-0	0.0531%

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

4. First-aid measures

Description of first aid measures

General information: Get medical attention if symptoms occur.

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

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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:	No data available.

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.

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 fire-fighters

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

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Personal precautions, protective equipment and emergency procedures:	No special precautionary health measures should be needed under anticipated conditions of use.
Accidental release measures:	No data available.
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:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	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 a cool, dry place. Keep container tightly closed.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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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), as amended
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Ferrous sulfate heptahydrate - as Fe	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Ferrous sulfate heptahydrate - Particulate.	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Ferrous sulfate heptahydrate - as Fe	TWA PEL	1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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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).

Skin Protection

Hand Protection: — Material: Chemical resistant gloves

Skin and Body Protection: — 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

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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.

Other information

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

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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

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 5,378.08 mg/kg
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

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Dermal

Product:	ATEmix: 12,977.53 mg/kg
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Inhalation

Product:	ATEmix: 91.43 mg/l Dusts, mists and fumes;
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Repeated dose toxicity

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.

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

Carcinogenicity

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	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:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

In vivo

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.

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

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	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:	

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eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	LC 50 (Oncorhynchus mykiss, 96 h): 177.8 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Oncorhynchus mykiss, 96 h): 147 - 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LC 50 (Danio rerio, 96 h): 464 - 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Danio rerio, 96 h): 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Leuciscus idus, 96 h): 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
Ferrous sulfate heptahydrate	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.

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Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Aquatic Invertebrates

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Toxicity to microorganisms

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

BOD/COD Ratio

Product: No data available.

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Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Mobility in soil:

Product No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

eosin y D&C red dye	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.
Ferrous sulfate heptahydrate	No data available.

Other adverse effects:

Other hazards

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Product: No data available.

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.

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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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

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.

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CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

SODIUM BISULFITE

FERROUS SULFATE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

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

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)

Chemical Identity

SODIUM BISULFITE

FERROUS SULFATE

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US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

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: 03/02/2023

Version #: 2.2

Further Information: No data available.

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