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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)
221270	BD BBL™ MacConkey II Agar - Gold Label	No data available

Other means of identification

SDS number: 088100176223

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

Not classified

Label Elements

Hazard Symbol: No symbol



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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 (%)*
Iron trichloride	No data available.	7705-08-0	0.0003%

* 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.

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.



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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/effects, 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.

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.



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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:

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.

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.



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8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Iron trichloride - as Fe	TWA	1 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Iron trichloride	AN ESL	1 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Iron trichloride - as Fe	TWA PEL	1 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

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

Other: 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

Information on basic physical and chemical properties

Appearance

Physical state: Gel
Form: Gel
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.

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.



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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.
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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 likely routes of exposure



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

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

Components:

Iron trichloride

LD 50 (Rat): 500 - 5,000 mg/kg
Experimental result, Supporting study LD 50 (Mouse): 895 mg/kg
Experimental result, Supporting study LD 50 (Mouse): 440 mg/kg
Experimental result, Key study LD 50 (Rat): 900 mg/kg
Experimental result, Supporting study LD 50 (Rat): 2,900 mg/kg
Experimental result, Supporting study LD 50 (Rat): 1,872 mg/kg
Experimental result, Supporting study

Dermal

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

Components:

Iron trichloride

LD 50 (Rat): > 2,000 mg/kg
Read-across based on grouping of substances (category approach), Key study

Inhalation

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

Components:

Iron trichloride

Aerosol, Experimental result, Supporting study

Repeated dose toxicity

Product: No data available.

Components:

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



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Skin Corrosion/Irritation

Product: No data available.
Components:
Iron trichloride in vivo (Rabbit): not corrosive

Serious Eye Damage/Eye Irritation

Product: No data available.
Components:
Iron trichloride No data available.

Respiratory or Skin Sensitization

Product: No data available.
Components:
Iron trichloride No data available.

Carcinogenicity

Product: No data available.
Components:
Iron trichloride 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:
Iron trichloride No data available.

In vivo

Product: No data available.
Components:
Iron trichloride No data available.

Reproductive toxicity



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Product: No data available.
Components:
Iron trichloride No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Components:
Iron trichloride No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Components:
Iron trichloride No data available.

Aspiration Hazard

Product: No data available.
Components:
Iron trichloride 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:

Iron trichloride

NOAEL (Gambusia affinis, 96 h): 55.1 mg/l Not specified, Not specified
LC 50 (Lepomis macrochirus, 96 h): 20.3 mg/l Experimental result, Supporting study
LC 50 (Gambusia affinis, 96 h): 75.6 mg/l Not specified, Not specified
LC 50 (Oryzias latipes, 48 h): 23 mg/l Not specified, Not specified
LC 0 (Danio rerio, 48 h): 92.8 mg/l Experimental result, Not specified

Aquatic Invertebrates

Product: No data available.

Components:

Iron trichloride

EC 50 (Nitokra spinipes, 96 h): 46.4 - 81.2 mg/l Experimental result, Not specified
EC 50 (Asellus sp., 48 h): 235.7 mg/l Experimental result, Not specified



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EC 50 (Daphnia magna, 48 h): 29.74 mg/l Experimental result, Not specified
EC 50 (48 h): 29 - 95 mg/l Experimental result, Not specified
EC 50 (Daphnia magna, 48 h): 9.6 mg/l Experimental result, Supporting study

Toxicity to Aquatic Plants

Product: No data available.
Components:
Iron trichloride No data available.

Toxicity to microorganisms

Product: No data available.
Components:
Iron trichloride No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.
Components:
Iron trichloride NOAEL (Pimephales promelas, 33 d): 0.32 mg/l Experimental result, Supporting study
NOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study
LOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study
LOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study

Aquatic Invertebrates

Product: No data available.
Components:
Iron trichloride LOAEL (Daphnia pulex, 21 d): 1.3 mg/l Experimental result, Supporting study
EC 50 (30 d): 63.8 mg/l Experimental result, Not specified
NOAEL (Daphnia pulex, 21 d): 0.7 mg/l Experimental result, Supporting study
EC 50 (30 d): 38.4 mg/l Experimental result, Not specified
EC 50 (Daphnia magna, 21 d): 15.1 mg/l Experimental result, Not specified

Toxicity to Aquatic Plants

Product: No data available.
Components:
Iron trichloride No data available.



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Toxicity to microorganisms

Product: No data available.

Components:
Iron trichloride No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:
Iron trichloride No data available.

BOD/COD Ratio

Product: No data available.

Components:
Iron trichloride No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:
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

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Components:
Iron trichloride No data available.

Mobility in soil:

Product No data available.

Components:



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Iron trichloride No data available.

Results of PBT and vPvB assessment:

Product No data available.
Components:
Iron trichloride No data available.

Other adverse effects:

Other hazards
Product: No data available.
Components:
Iron trichloride 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: No data available.

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.



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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.

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
Iron trichloride

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. 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)

Chemical Identity
Iron trichloride

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Methanaminium, N-[4-[bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride (1:1) which is [are] known to the State of California to cause cancer.
For more information go to www.P65Warnings.ca.gov.

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.



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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: 09/06/2021

Version #: 1.1

Further Information: No data available.

Disclaimer:
Disclaimer:
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