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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)
228950	BD Difco™ GC Medium Base 500G	No data available
228930	BD Difco™ GC Medium Base 10Kg	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: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements Not applicable



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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 (%) [*]
Starch	No data available.	9005-25-8	2.4229%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1502%

^{*} 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.
- 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.



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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.
Accidental release measures: Methods and material for containment and cleaning up:	No data available. 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.



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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
Starch - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Starch - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Starch - Respirable fraction.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Starch - Total dust.	TWA	15 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Starch - Particulate.	AN ESL	5 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Starch	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Starch - Total	REL	10 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Starch - Respirable.	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Starch - Total dust.	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Starch - Respirable fraction.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as



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			amended
	REL	5 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).

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

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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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.
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.
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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.



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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: No data available.

Components:

Starch No data available.
Sulfurous acid, sodium salt (1:1) LD 50 (Rat): 3,200 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Supporting study LD 50 (Rat): > 2,150 - < 2,610 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Supporting study LD 50 (Rat): 2,746 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): 2,610 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study

Dermal

Product: ATEmix: 16,508.73 mg/kg

Components:

Starch No data available.
Sulfurous acid, sodium salt (1:1) LD 50 (Rat): > 2,000 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study LD 50 (Rat): > 2,000 mg/kg
Read-across from supporting substance (structural analogue or surrogate), Key study



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Inhalation

Product:

No data available.

Components:

Starch

No data available.

Sulfurous acid, sodium salt (1:1)

LC 50 (Rat, 4 h): > 22 mg/l Aerosolized dust; 2 = reliable with restrictions; Read-across from supporting substance (structural analogue or surrogate), Key study, Aerosolized dust LC 50 (Rat, 4 h): > 5.5 mg/l Aerosolized dust; 2 = reliable with restrictions; Read-across from supporting substance (structural analogue or surrogate), Key study, Aerosolized dust LC 50 (Rat, 4 h): > 5.5 mg/l Aerosolized dust; 2 = reliable with restrictions; Read-across from supporting substance (structural analogue or surrogate), Key study, Aerosolized dust LC 50 (Rat, 4 h): > 5.5 mg/l Aerosolized dust; 2 = reliable with restrictions; Read-across from supporting substance (structural analogue or surrogate), Key study, Aerosolized dust

Repeated dose toxicity

Product:

No data available.

Components:

Starch

No data available.

Sulfurous acid, sodium salt (1:1)

NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Read-across from supporting substance (structural analogue or surrogate), Supporting study Oral
NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Experimental result, Supporting study Oral
NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Read-across from supporting substance (structural analogue or surrogate), Supporting study Oral
NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study Oral
NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): > 955 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study Oral

Skin Corrosion/Irritation

Product:

No data available.

Components:

Starch

No data available.

Sulfurous acid, sodium salt (1:1)

No data available.

Serious Eye Damage/Eye Irritation

Product:

No data available.

Components:

Starch

No data available.

Sulfurous acid, sodium salt (1:1)

No data available.

Respiratory or Skin Sensitization



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Product: No data available.

Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Carcinogenicity

Product: No data available.

Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) 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:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

In vivo

Product: No data available.

Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Reproductive toxicity

Product: No data available.

Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Starch No data available.



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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Aspiration Hazard

Product: No data available.

Components:

Starch No data available.
Sulfurous acid, sodium 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:

Starch No data available.
Sulfurous acid, sodium salt (1:1) LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
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

Aquatic Invertebrates

Product: No data available.

Components:

Starch No data available.
Sulfurous acid, sodium salt (1:1) ED 0 (Daphnia magna, 48 h): 62.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study



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EC 50 (Daphnia magna, 48 h): 89 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
EC 100 (Daphnia magna, 48 h): 125 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Toxicity to microorganisms

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) NOAEL (Danio rerio, 34 d): >= 316 mg/l (flow-through) Read-across from supporting substance (structural analogue or surrogate), Key study

Aquatic Invertebrates

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) LC 0 (Daphnia magna, 21 d): > 10 mg/l (semi-static) Read-across from supporting substance (structural analogue or surrogate), Key study
NOAEL (Daphnia magna, 21 d): > 10 mg/l (semi-static) Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.

Toxicity to microorganisms

Product: No data available.
Components:
Starch No data available.
Sulfurous acid, sodium salt (1:1) No data available.



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Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Starch No data available.

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

BOD/COD Ratio

Product: No data available.

Components:

Starch No data available.

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

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Starch No data available.

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

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Components:

Starch No data available.

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

Mobility in soil:

Product No data available.

Components:

Starch No data available.

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

Results of PBT and vPvB assessment:

Product No data available.

Components:

Starch No data available.

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

Other adverse effects:



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Other hazards

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.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity
Sulfurous acid, sodium salt (1:1)

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.



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Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity

Sulfurous acid, sodium salt (1:1)

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

Starch

US. Massachusetts RTK - Substance List

Chemical Identity

Starch

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Starch

US. Rhode Island RTK

Chemical Identity

Starch

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: 12/22/2021

Version #: 2.2

Further Information: No data available.



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