



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
263220	BD Difco™ DNase Test Agar	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



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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 (%)*
Carbonic acid sodium salt (1:2)	No data available.	497-19-8	1.1682%
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.	113-24-6	0.4673%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1168%

* 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:** 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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.

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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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

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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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: 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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.
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.
-------------------------	---

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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

11. Toxicological information

Information on likely routes of exposure

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:	ATEmix: 239,684.99 mg/kg
Components:	
Sodium carbonate	LD 50 (Rat): 2,800 mg/kg Experimental result, Key study
Sodium pyruvate	No data available.
Sodium hydrogensulfite	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 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

Dermal

Product:	ATEmix: 171,203.56 mg/kg
Components:	
Sodium carbonate	LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study
Sodium pyruvate	No data available.
Sodium hydrogensulfite	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



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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

Inhalation

Product:

No data available.

Components:

Sodium carbonate

LC 50 (Rat): 2,300 mg/m³
Experimental result, Key study, Aerosol LC 50 (Mouse): 1,200 mg/m³
Experimental result, Supporting study, Aerosol LC 50 (Guinea pig): 800 mg/m³
Experimental result, Supporting study

Sodium pyruvate

No data available.

Sodium
hydrogensulfite

LC 50 (Rat): > 22 mg/l
Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l
Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l
Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Rat): > 5.5 mg/l
Aerosolized dust, Read-across from supporting substance (structural analogue or surrogate), Key study

Repeated dose toxicity

Product:

No data available.

Components:

Sodium carbonate

No data available.

Sodium pyruvate

No data available.

Sodium
hydrogensulfite

NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Oral Experimental result, Supporting study
NOAEL (Rat(female), Oral, 8 Weeks): 70 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study
NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study

Skin Corrosion/Irritation

Product:

No data available.



Becton, Dickinson and Company

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Components:

Sodium carbonate in vivo (Rabbit): Not irritant

Sodium pyruvate No data available.

Sodium hydrogensulfite in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Sodium carbonate Highly irritating in vivo Rabbit, 48 hrs:

Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

Respiratory or Skin Sensitization

Product: No data available.

Components:

Sodium carbonate No data available.

Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

Carcinogenicity

Product: No data available.

Components:

Sodium carbonate No data available.

Sodium pyruvate No data available.

Sodium hydrogensulfite No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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:	
Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.

In vivo

Product:	No data available.
Components:	
Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	



Becton, Dickinson and Company

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Sodium carbonate	No data available.
Sodium pyruvate	No data available.
Sodium hydrogensulfite	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:

Carbonic acid sodium salt (1:2)	LC 50 (Gambusia affinis, 48 h): 840 mg/l Experimental result, Supporting study LC 50 (Gambusia affinis, 96 h): 740 mg/l Experimental result, Supporting study
---------------------------------	--



Becton, Dickinson and Company

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Propanoic acid, 2-oxo-, sodium salt (1:1)	LC 50 (Lepomis macrochirus, 96 h): 300 mg/l Experimental result, Key study
Sulfurous acid, sodium salt (1:1)	NOAEL (Gambusia affinis, 96 h): 560 mg/l Experimental result, Supporting study
	LC 50 (Gambusia affinis, 24 h): 1,200 mg/l Experimental result, Supporting study
	No data available.
	LC 50 (Leuciscus idus, 96 h): > 215 - < 464 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 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study
	LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
	NOAEL (Leuciscus idus, 96 h): 215 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Aquatic Invertebrates

Product:

No data available.

Components:

- Carbonic acid sodium salt (1:2)
- Propanoic acid, 2-oxo-, sodium salt (1:1)
- Sulfurous acid, sodium salt (1:1)

EC 50 (Ceriodaphnia sp., 48 h): 200 - 227 mg/l Experimental result, Key study

No data available.

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

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

ED 0 (Daphnia magna, 48 h): 62.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product:

No data available.

Components:

- Carbonic acid sodium salt (1:2)
- Propanoic acid, 2-oxo-, sodium salt (1:1)
- Sulfurous acid, sodium salt (1:1)

No data available.

No data available.

No data available.

Toxicity to microorganisms

Product:

No data available.

Components:

- Carbonic acid sodium salt (1:2)
- Propanoic acid, 2-oxo-, sodium salt (1:1)

No data available.

No data available.



Becton, Dickinson and Company

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

Sulfurous acid, sodium salt (1:1) NOAEL (Danio rerio, 34 d): ≥ 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Aquatic Invertebrates

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

Sulfurous acid, sodium salt (1:1) NOAEL (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
LC 0 (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

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

Toxicity to microorganisms

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

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

Persistence and Degradability



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Biodegradation

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

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

BOD/COD Ratio

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

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

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) 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:

Carbonic acid sodium salt (1:2) No data available.

Propanoic acid, 2-oxo-, sodium salt (1:1) No data available.

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

Mobility in soil:

Product No data available.

Components:

Carbonic acid sodium salt (1:2) No data available.



Becton, Dickinson and Company

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.

Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Carbonic acid sodium salt (1:2)	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	No data available.

Other adverse effects:

Other hazards

Product:	No data available.
Components:	
Carbonic acid sodium salt (1:2)	No data available.
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.
Sulfurous acid, sodium salt (1:1)	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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.

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

SDS_US



**Becton, Dickinson and
Company**

BD, Franklin Lakes, NJ
07417 USA
www.bd.com

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.

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

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.



Becton, Dickinson and Company
BD, Franklin Lakes, NJ
07417 USA
www.bd.com

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

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: 10/07/2021

Version #: 1.1

Further Information: No data available.

Disclaimer: Disclaimer:
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.