



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

SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
276840	Bottle Baird Parker Agar Base 500G	No data available

Other means of identification

SDS number: 088100178646

Recommended use and restriction on use

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Supplier/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

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1

Unknown toxicity - Health

Acute toxicity, oral 15.79 %
Acute toxicity, dermal 15.79 %



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

Acute toxicity, inhalation, vapor 23.97 %
Acute toxicity, inhalation, dust or mist 16.07 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment 15.79 %
Chronic hazards to the aquatic environment 28.42 %

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

Disposal: P501: Dispose of contents/container to an appropriate treatment



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

and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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 (%)*
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.	113-24-6	15.7903%
lithium chloride	No data available.	7447-41-8	7.8952%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.1579%

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

4. First-aid measures

General information:	Get medical attention if symptoms occur. Causes skin and eye irritation. May cause an allergic skin reaction.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
Inhalation:	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.
Skin Contact:	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.



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

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

Most important symptoms/effects, acute and delayed

Symptoms: Symptoms may be delayed.

Hazards: Causes skin and eye irritation. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed

Treatment: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No unusual fire or explosion hazards noted.



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

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:

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up:

Stop leak if possible without any risk. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

Environmental Precautions:

Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide eyewash station and safety shower.

Safe handling advice:

Eye wash facilities and emergency shower must be available when handling this product. Do not get in eyes, on skin, on clothing. Wash promptly with soap and water if skin becomes contaminated. 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.



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

Hygiene measures: Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

Storage

Safe storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place.

Safe packaging materials: No data available.

Storage Temperature: 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/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
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 (07 2011)
	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
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 (08 2010)
	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	5 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

Appropriate Engineering Controls Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide eyewash station and safety shower.



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

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:	Use suitable protective gloves if risk of skin contact.
Other:	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	solid
Color:	According to product specification.
Odor:	Characteristic
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable



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

Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	Not determined.

10. Stability and reactivity

Reactivity:	Product is not reactive under normal conditions and recommended use.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	None under normal conditions.
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.



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

11. Toxicological information

General information: May cause allergic skin reaction based on human experience. Irritating.

Information on likely routes of exposure

Ingestion: Ingestion may cause irritation and malaise.

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact: Prolonged or repeated contact may cause skin sensitization in susceptible individuals. Causes skin irritation.

Eye contact: Irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 4,464.71 mg/kg

Dermal

Product: ATEmix: 21,331.87 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.



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

Specified substance(s):

lithium chloride	NOAEL (Rat(Male), Oral): 13.9 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study NOAEL (Rat(Male), Oral): 84.8 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study
Sulfurous acid, sodium salt (1:1)	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.

Specified substance(s):

lithium chloride	in vivo (Rabbit): Not irritant Experimental result, Key study
Sulfurous acid, sodium salt (1:1)	in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study

Serious Eye Damage/Eye Irritation

Product: No data available.



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

Specified substance(s):

lithium chloride	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

lithium chloride	Skin sensitization:, in vivo (Guinea pig): Non sensitising
------------------	--

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

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

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.



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

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

lithium chloride	NOAEL (Oncorhynchus mykiss, 96 h): 59.4 mg/l Experimental result, Key study LC 50 (Oncorhynchus mykiss, 96 h): 158 mg/l Experimental result, Key study
Sulfurous acid, sodium salt (1:1)	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),



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

Supporting study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

lithium chloride	NOAEL (Daphnia magna, 48 h): 63.4 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 249 mg/l Experimental result, Key study
Sulfurous acid, sodium salt (1:1)	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

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

lithium chloride	LOAEL (Pimephales promelas, 26 d): 1.9 mg/l Experimental result, Supporting study LOAEL (Danio rerio, 34 d): 24.35 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Danio rerio, 34 d): 25 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Danio rerio, 34 d): 18 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 50 (Pimephales promelas, 26 d): 8.7 mg/l Experimental result, Supporting study
Sulfurous acid, sodium salt (1:1)	NOAEL (Danio rerio, 34 d): \geq 316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study



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

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

lithium chloride	LOAEL (Daphnia magna, 21 d): 2.53 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Daphnia magna, 21 d): 10.4 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Daphnia magna, 21 d): 1.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 21 d): > 10.4 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 21 d): > 1.7 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
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.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.



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

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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

lithium chloride No data available.

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

Other adverse effects: No data available.

13. Disposal considerations

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: No data available.



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

14. Transport information

DOT UN 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.



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

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

SODIUM BISULFITE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Serious eye damage or eye irritation, Respiratory or Skin Sensitization

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)



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

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.

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.

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

Issue Date: 04/09/2021

Version #: 2.1

Revision Information:

Further Information: No data available.



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

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.