

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

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
211407	Bottle Mannitol Salt Agar BBL 500G	No data available

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Laboratory Chemicals

**Uses advised against:** None known.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

BD, Integrated Diagnostic Solutions  
11, rue Aristide Bergès  
38800 Le Pont de Claix  
France

**Telephone:** 33 476 68 36 36

**Contact Person:** BD Diagnostic Systems Europe - Regulatory Compliance Department

**E-mail:** msds\_europe@bd.com

**1.4 Emergency telephone number:** CHEMTREC 1 800 424 9300

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

### 2.2 Label Elements

Not applicable

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

**Supplemental information**

EUH208: Contains (Propanoic acid, 2-oxo-, sodium salt (1:1)). May produce an allergic reaction.  
EUH210: Safety data sheet available on request.

**2.3 Other hazards**

**Endocrine Disruption-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine Disruption-ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Sodium pyruvate	0.1 - <1%	113-24-6	204-024-4	01-2120767047-50-0003; 01-2120767047-50-0004	No data available.	

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

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC.

**Classification**

Chemical name	Classification	Notes
Sodium pyruvate	Classification: Eye Irrit.: 2: H319; Skin Sens.: 1B: H317; Supplemental label information: None known.	No data available.

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

	Specific concentration limit: None known. Acute toxicity, oral: None known. Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	
--	--	--

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

#### SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur.

##### 4.1 Description of first aid measures

**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.

**4.2 Most important symptoms and effects, both acute and delayed:** No data available.

##### 4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** No data available.

**Treatment:** No data available.

#### SECTION 5: Firefighting measures

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

**5.1 Extinguishing media**  
**Suitable extinguishing media:**

Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

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

**Unsuitable extinguishing media:** None known.

**5.2 Special hazards arising from the substance or mixture:** None known.

**5.3 Advice 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.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** No special precautionary health measures should be needed under anticipated conditions of use.

**6.1.1 For non-emergency personnel:** No data available.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Avoid release to the environment.

**6.3 Methods and material for containment and cleaning up:** No specific clean-up procedure noted.

**6.4 Reference to other sections:** No data available.

## SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:** When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place. Keep container tightly closed.

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

**Storage Temperature:** No data available.

**7.3 Specific end use(s):** Reserved for industrial and professional use.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**DNEL-Values**

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Saccharomyces cerevisiae, ext.	General population	Dermal	Systemic, long-term; 7.5 mg/kg body weight/day	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 7.5 mg/kg body weight/day	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 12.5 mg/kg body weight/day	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	Workers	Inhalation	Systemic, long-term; 22.1 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No data available
	General population	Inhalation	Systemic, long-term; 6.52 mg/m3	Repeated dose toxicity
calcium chloride	Workers	Inhalation	Systemic, short-term; 5 mg/m3	
	Workers	Inhalation	Systemic, short-term; 10 mg/m3	

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

	Workers	Inhalation	Systemic, long-term; 5 mg/m <sup>3</sup>	
	General population	Inhalation	Systemic, short-term; 2.5 mg/m <sup>3</sup>	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 2.5 mg/m <sup>3</sup>	
	General population	Inhalation	Systemic, short-term; 5 mg/m <sup>3</sup>	

sodium carbonate	General population	Inhalation	Systemic, short-term; 10 mg/m <sup>3</sup>	respiratory tract irritation
	Workers	Inhalation	Systemic, short-term; 10 mg/m <sup>3</sup>	respiratory tract irritation

Sodium chloride	Workers	Dermal	Systemic, long-term; 295.52 mg/kg body weight/day	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 443.28 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 2068.62 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 2068.62 mg/m <sup>3</sup>	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 443.28 mg/m <sup>3</sup>	Repeated dose toxicity

**PNEC-Values**  
Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
--------------------	---------------------------	-------------	---------

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

Sodium chloride	Soil	4.86 mg/kg	
	Aquatic (freshwater)	5 mg/l	
	Sewage treatment plant	500 mg/l	

## 8.2 Exposure controls

**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).

**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.

**Environmental Controls:** No data available.

## SECTION 9: Physical and chemical properties

### 9.1 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:** Not determined.

**Boiling Point:** Not determined.

**Flammability:** Not applicable

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** Not applicable

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

<b>Explosive limit - lower:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Self Ignition Temperature:</b>	Not determined.
<b>Decomposition Temperature:</b>	Not applicable
<b>pH:</b>	Not determined.
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	Not determined.
<b>Kinematic viscosity:</b>	Not determined.
<b>Flow Time:</b>	Not applicable
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Bulk density:</b>	Not applicable
<b>Vapor density (air=1):</b>	Not applicable
<b>Particle characteristics</b>	
<b>Particle Size:</b>	Not applicable
<b>Particle Size Distribution:</b>	Not applicable
<b>Specific surface area:</b>	Not applicable
<b>Surface charge/Zeta potential:</b>	Not applicable
<b>Assessment:</b>	Not applicable
<b>Shape:</b>	Not applicable
<b>Crystallinity:</b>	Not applicable
<b>Surface treatment:</b>	Not applicable

## 9.2 Other information

<b>Metal Corrosion:</b>	Non-corrosive per US Department of Transportation testing protocol.
-------------------------	---

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Material is stable under normal conditions.
-------------------------	---



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

- 10.2 Chemical Stability:** Material is stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** Not known.
- 10.4 Conditions to avoid:** Avoid exposure to high temperatures or direct sunlight.
- 10.5 Incompatible Materials:** Strong oxidizers.
- 10.6 Hazardous Decomposition Products:** Not known.

## SECTION 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.

### 11.1 Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

- Product:** Not classified for acute toxicity based on available data.
- Components:**  
Sodium pyruvate No data available.

##### Dermal

- Product:** Not classified for acute toxicity based on available data.
- Components:**  
Sodium pyruvate No data available.

##### Inhalation

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

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

---

Sodium pyruvate

**Repeated dose toxicity**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Carcinogenicity**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**In vivo**

**Product:** No data available.

**Components:**

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

Sodium pyruvate No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**Aspiration Hazard**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**11.2 Information on health hazards**

**Other hazards**

**Product:** No data available.

**Endocrine Disruption**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Components:**  
Sodium pyruvate No data available.

**SECTION 12: Ecological information**

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

## 12.1 Ecotoxicity:

### Acute hazards to the aquatic environment:

#### Fish

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Aquatic Invertebrates

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

### Chronic hazards to the aquatic environment:

#### Fish

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Aquatic Invertebrates

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

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

Sodium pyruvate No data available.

## 12.2 Persistence and Degradability

### Biodegradation

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

### BOD/COD Ratio

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

## 12.3 Bioaccumulative potential

### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

## 12.4 Mobility in soil:

**Product** No data available.

**Components:**  
Sodium pyruvate No data available.

## 12.5 Results of PBT and vPvB assessment:

**Product** No data available.

**Components:**  
Sodium pyruvate No data available. No data available.

## 12.6 Endocrine Disruption:

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

**Components:**

Sodium pyruvate No data available.

**12.7 Other adverse effects:****Other hazards**

**Product:** No data available.

**Components:**  
Sodium pyruvate No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**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.

**SECTION 14: Transport information****ADR**

14.1 UN Number: Not regulated.  
14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
Hazard No. (ADR): Not regulated.  
Tunnel restriction code: Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards: Not regulated.  
Marine Pollutant: Not regulated.

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

---

14.6 Special precautions for user: Not regulated.

**ADN**

14.1 UN Number: Not regulated.  
14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
Hazard No. (ADR): Not regulated.  
Tunnel restriction code: Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards:  
Marine Pollutant: Not regulated.  
14.6 Special precautions for user: Not regulated.

**RID**

14.1 UN Number: Not regulated.  
14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards:  
Marine Pollutant: Not regulated.  
14.6 Special precautions for user: Not regulated.

**IMDG**

14.1 UN Number: Not regulated.

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

14.2 UN Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es)  
Class: Not regulated.  
Label(s): Not regulated.  
EmS No.: Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards: Not regulated.  
Marine Pollutant: Not regulated.  
  
14.6 Special precautions for user: Not regulated.

**IATA**

14.1 UN Number: Not regulated.  
14.2 Proper Shipping Name: Not regulated.  
14.3 Transport Hazard Class(es):  
Class: Not regulated.  
Label(s): Not regulated.  
14.4 Packing Group: Not regulated.  
14.5 Environmental Hazards: Not regulated.  
Marine Pollutant: Not regulated.  
  
14.6 Special precautions for user: Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:**  
none

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:**



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

none

**EU. REACH Annex XIV, Substances Subject to Authorization:** none

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** none

**EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17:** none

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended:** none

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended:** none

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended:** none

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended:** none

**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):** none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:** none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

Not applicable

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	CAS-No.	Concentration
Calcium chloride (CaCl <sub>2</sub> )	10043-52-4	0.1 - 1.0%
Carbonic acid sodium salt (1:2)	497-19-8	0.1 - 1.0%

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

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**International regulations**

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

**SECTION 16: Other information**

**Revision Information:** No data available. .

**Abbreviations and acronyms:**  
No data available.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

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

**Training information:** No data available.

**SDS No.:** UN000000000000211407-E-01

**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.