

Product: BD Bactrol Plus Disk MIC Set

B-237920

Article number: 237920

Substance no.	designation	qty.	symbols
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237920a	Enterococcus faecalis (ATCC #29212)	-	T
237920b	Escherichia coli (ATCC #25922)	-	T
237920c	Pseudomonas aeruginosa (ATCC #27853)	-	T
237920d	Staphylococcus aureus (ATCC #29213)	-	T

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/25/1999

Reviewed on 08/10/1999

* 1 Identification of substance:

o Product details:

o Trade name: Enterococcus faecalis (ATCC #29212)
(BD Bactrol Plus Disk MIC Set)

o Article number: 237920

o Manufacturer/Supplier:

In the Continental United States call: Becton Dickinson Microbiology Systems 7 Loveton Circle, Sparks, Maryland 21152 Tel: (410) 771-0100 or (800) 638-8663

Outside the United States call: Becton Dickinson European Division 11 rue Aristide Berges BP 4 38800 Le Pont De Claix France Tel: 33 4 76 68 36 36

o Information department: Technical Service Representative

* 2 Composition/Data on components:

o Chemical characterization:

CAS No. Description:

Enterococcus faecalis (ATCC #29212)

• 3 Hazards identification

- Hazard description: T Toxic
- Information pertaining to particular dangers for man and environment
R 23/25 Toxic by inhalation and if swallowed.
- NFPA ratings (scale 0-4)
Health - 3 Fire - 0 Reactivity - 0

• 4 First aid measures

- General information Immediately remove contaminated clothing.
- After inhalation
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient on side position for transportation.
May cause bacterial infection.
- After skin contact
Immediately wash with water and soap and rinse thoroughly.
- After eye contact
Rinse opened eye for several minutes under running water. Then consult a doctor.
May cause bacterial infection.
- After swallowing
Call a doctor immediately.
May cause bacterial infection.

• 5 Fire fighting measures

- Suitable extinguishing agents
CO2, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
- Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

• 6 Accidental release measures

- Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Wipe up with damp sponge or mop.
- Measures for cleaning/collecting:
Dispose of the collected material according to regulations.
Disinfect area with 10 percent hypochlorite solution (bleach) for at least 15 minutes.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 2 - 8 C
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **Class according to regulation on flammable liquids:** Void

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Use a biological Safety cabinet.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
Not required.
Protective gloves.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:o **Form:**

Sol'd.

Powder

o **Color:** According to product specificationo **Odor:** Characteristic

o

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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o **Change in condition**o **Melting point/Melting range:** Undeterminedo **Boiling point/Boiling range:** Undeterminedo **Flash point:** Not applicableo **Danger of explosion:**

Product does not present an explosion hazard.

o **Density:** Not determinedo **Solubility in / Miscibility with**o **Water:** Insoluble**10 Stability and reactivity**o **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

o **Dangerous reactions** No dangerous reactions knowno **Dangerous products of decomposition:**

No dangerous decomposition products known

***11 Toxicological information**o **Acute toxicity:**o **Primary irritant effect:**o **on the skin:** No irritant effect.o **on the eye:** No irritating effect.o **Sensitization:** No sensitizing effects known.o **Additional toxicological information:**

Bactrol Plus Disks are not chemicals but are live, lab attenuated microorganisms. They are capable of causing disease in animal and man, especially individuals with a suppressed immune system.

12 Ecological information:**o Ecotoxical effects:****o Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

o General notes: Not known to be hazardous to water.**13 Disposal considerations****o Product:****o Recommendation**

Must adhere to state and federal regulations.

Disinfect with sodium hypochlorite, or incinerate, or autoclave at 121 C for at least 15 minutes before disposing.

o Uncleaned packagings:**o Recommendation:**

Disposal must be made according to regulations found in 40 CFR 261

• *14 Transport information

- DOT regulations:
- Hazard class: 6.2
- Identification number: UN2814
- Packing group: -
- Proper shipping name (technical name):
Infectious substance, affecting humans
(enterococcus faecalis (ATCC #29212))

- Land transport ADR/RID (cross-border)
- ADR/RID class: 6.2 Substances that are nauseating and bear the risk of infection.
- Item: 3b
- Danger code (Kemler): 606
- UN-Number: 2814
- Description of goods: 2814 Infectious substance, affecting humans
(enterococcus faecalis (ATCC #29212))

- Maritime transport IMDG:
- IMDG Class: 6.2
- Page: 6321
- UN Number: 2814
- Packaging group: -
- MFAG: -
- Marine pollutant: No
- Proper shipping name: Infectious substance, affecting humans
(enterococcus faecalis (ATCC #29212))

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 6.2
- UN/ID Number: 2814
- Packaging group: -
- Proper shipping name: Infectious substance, affecting humans
(enterococcus faecalis (ATCC #29212))

15 Regulations*o Product related hazard informations:**

The product has been classified and marked in accordance with regulations on hazardous materials.

o Hazard symbols: T Toxic**o Risk phrases:** 23/25 Toxic by inhalation and if swallowed.**o Safety phrases:**

13 Keep away from food, drink and animal feeding stuffs.

o National regulations**o Additional classification according to Decree on Hazardous Materials:**

CERCLA: This product does not contain chemicals having a Reportable Quantity (RQ). SARA 311/312: May be subject to reporting.

313: Not subject to reporting. TSCA: This product is exempt under TSCA.

• 16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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.

o Department issuing MSDS: Safety & Environment Department**o Contact:** Technical Service Representative**Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 08/25/1999

Reviewed on 03/10/1999

• * 1 Identification of substance:

○ Product details:

○ Trade name: Escherichia coli (ATCC #25922)
(BD Bactrol Plus Disk MIC Set)

○ Article number: 237920

○ Manufacturer/Supplier:

In the Continental United States call: Becton Dickinson Microbiology Systems 7 Loveton Circle, Sparks, Maryland 21152 Tel: (410)771-0100 or (800)638-8663

Outside the United States call: Becton Dickinson European Division 11 rue Aristide Berges BP 4 38800 Le Pont De Claix France Tel: 33 4 76 68 36 36

○ Information department: Technical Service Representative

• * 2 Composition/Data on components:

○ Chemical characterization:

CAS No. Description:

Escherichia coli (ATCC #25922)

• 3 Hazards identification

○ Hazard description: T Toxic

○ Information pertaining to particular dangers for man and environment
R 23/25 Toxic by inhalation and if swallowed.

○ NFPA ratings (scale 0-4)

Health = 3 Fire = 0 Reactivity = 0

4 First aid measures

- **General information** Immediately remove contaminated clothing.
- **After inhalation**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient on side position for transportation.
May cause bacterial infection.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
May cause bacterial infection.
- **After swallowing**
Call a doctor immediately.
May cause bacterial infection.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Dispose of the collected material according to regulations.
Disinfect area with 10 percent hypochlorite solution (bleach) for at least 15 minutes.

• 7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 2 - 8 °C
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **Class according to regulation on flammable liquids:** Void

• 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Use a biological Safety cabinet.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
Not required.
Protective gloves.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:○ **Form:**

Solid.

Powder

○ **Color:** According to product specification○ **Odor:** Characteristic

○

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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○ **Change in condition**○ **Melting point/Melting range:** Undetermined○ **Boiling point/Boiling range:** Undetermined○ **Flash point:** Not applicable○ **Danger of explosion:**

Product does not present an explosion hazard.

○ **Density:** Not determined○ **Solubility in / Miscibility with**○ **Water:** Insoluble**10 Stability and reactivity**○ **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

○ **Dangerous reactions** No dangerous reactions known○ **Dangerous products of decomposition:**

No dangerous decomposition products known

***11 Toxicological information**○ **Acute toxicity:**○ **Primary irritant effect:**○ **on the skin:** No irritant effect.○ **on the eye:** No irritating effect.○ **Sensitization:** No sensitizing effects known.○ **Additional toxicological information:**

Bactrol Plus Disks are not chemicals but are live, lab attenuated microorganisms. They are capable of causing disease in animal and man, especially individuals with a suppressed immune system.

12 Ecological information:**o Ecotoxical effects:****o Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

o General notes: Not known to be hazardous to water.**13 Disposal considerations****o Product:****o Recommendation**

Must adhere to state and federal regulations.

Disinfect with sodium hypochlorite, or incinerate, or autoclave at 121 C for at least 15 minutes before disposing.

o Uncleaned packagings:**o Recommendation:**

Disposal must be made according to regulations found in 40 CFR 261

*14 Transport information

- DOT regulations:
- Hazard class: 6.2
- Identification number: UN2814
- Packing group: -
- Proper shipping name (technical name):
Infectious substance, affecting humans
(escherchia coli (ATCC #25922))
- Land transport ADR/RID (cross-border)
- ADR/RID class: 6.2 Substances that are nauseating and bear the risk of infection.
- Item: 3b
- Danger code (Kemler): 606
- UN-Number: 2814
- Description of goods: 2814 Infectious substance, affecting humans
(escherchia coli (ATCC #25922))
- Maritime transport IMDG:
- IMDG Class: 6.2
- Page: 6321
- UN Number: 2814
- Packaging group: -
- MFAG: -
- Marine pollutant: Nc
- Proper shipping name: Infectious substance, affecting humans
(escherchia coli (ATCC #25922))
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 6.2
- UN/ID Number: 2814
- Packaging group: -
- Proper shipping name: Infectious substance, affecting humans
(escherchia coli (ATCC #25922))

15 Regulations*o Product related hazard informations:**

The product has been classified and marked in accordance with regulations on hazardous materials.

o Hazard symbols: T Toxic**o Risk phrases:** 23/25 Toxic by inhalation and if swallowed.**o Safety phrases:**

13 Keep away from food, drink and animal feeding stuffs.

o National regulations**o Additional classification according to Decree on Hazardous Materials:**

CERCLA: This product does not contain chemicals having a Reportable Quantity (RQ). SARA 311/312: May be subject to reporting.

313: Not subject to reporting. TSCA: This product is exempt under TSCA.

*** 16 Other information:**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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.

o Department issuing MSDS: Safety & Environment Department**o Contact:** Technical Service Representative**Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 08/25/1999

Reviewed on 08/10/1999

• * 1 Identification of substance:

○ Product details:

○ Trade name: Pseudomonas aeruginosa (ATCC #27853)
(BD Bactrol Plus Disk MIC Set)

○ Article number: 237920

○ Manufacturer/Supplier:

In the Continental United States call: Becton Dickinson Microbiology Systems 7 Loveton Circle, Sparks, Maryland 21152 Tel: (410) 771-0100 or (800) 638-8663

Outside the United States call: Becton Dickinson European Division 11 rue Aristide Berges BP 4 38800 Le Pont De Claix France Tel: 33 4 76 68 36 36

○ Information department: Technical Service Representative

• * 2 Composition/Data on components:

○ Chemical characterization:

CAS No. Description:

Pseudomonas aeruginosa (ATCC #27853)

• 3 Hazards identification

○ Hazard description: T Toxic

○ Information pertaining to particular dangers for man and environment
R 23/25 Toxic by inhalation and if swallowed.

○ NFPA ratings (scale 0-4)

Health = 3 Fire = 0 Reactivity = 0

4 First aid measures

- **General information** Immediately remove contaminated clothing.
- **After inhalation**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient on side position for transportation.
May cause bacterial infection.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
May cause bacterial infection.
- **After swallowing**
Call a doctor immediately.
May cause bacterial infection.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Dispose of the collected material according to regulations.
Disinfect area with 10 percent hypochlorite solution (bleach) for at least 15 minutes.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 2 - 8 C
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **Class according to regulation on flammable liquids:** Void

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Use a biological Safety cabinet.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**
Not required.
Protective gloves.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

Physical and chemical properties:

m:

d.

der

or: According to product specification

r: Characteristic

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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nge in condition

ting point/Melting range:

Undetermined

ling point/Boiling range:

Undetermined

sh point:

Not applicable

ger of explosion:

duct does not present an explosion hazard.

sity:

Not determined

ubility in / Miscibility with

er:

Insoluble

Stability and reactivity

ermal decomposition / conditions to be avoided:

decomposition if used according to specifications.

dangerous reactions No dangerous reactions known

dangerous products of decomposition:

dangerous decomposition products known

Toxicological information

te toxicity:

mary irritant effect:

the skin: No irritant effect.

the eye: No irritating effect.

sitzation: No sensitizing effects known.

ditional toxicological information:

ontrol Plus Disks are not chemicals but are live, lab attenuated microorganisms. They are capable of causing disease in animal and man, especially individuals with a suppressed immune system.

• 12 Ecological information:**◦ Ecotoxical effects:****◦ Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

◦ General notes: Not known to be hazardous to water.**• 13 Disposal considerations****◦ Product:****◦ Recommendation**

Must adhere to state and federal regulations.

Disinfect with sodium hypochlorite, or incinerate, or autoclave at 121 C for at least 15 minutes before disposing.

◦ Uncleaned packagings:**◦ Recommendation:**

Disposal must be made according to regulations found in 40 CFR 261

• ***14 Transport information**

- DOT regulations:
- Hazard class: 6.2
- Identification number: UN2814
- Packing group: -
- Proper shipping name (technical name):
Infectious substance, affecting humans
(pseudomonas aeruginosa (ATCC #27853))
- Land transport ADR/RID (cross-border)
- ADR/RID class: 6.2 Substances that are nauseating and bear the risk of infection.
- Item: 3b
- Danger code (Kemler): 606
- UN-Number: 2814
- Description of goods: 2814 Infectious substance, affecting humans
(pseudomonas aeruginosa (ATCC #27853))
- Maritime transport IMDG:
- IMDG Class: 6.2
- Page: 6321
- UN Number: 2814
- Packaging group: -
- MFAG: -
- Marine pollutant: No
- Proper shipping name: Infectious substance, affecting humans
(pseudomonas aeruginosa (ATCC #27853))
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 6.2
- UN/ID Number: 2814
- Packaging group: -
- Proper shipping name: Infectious substance, affecting humans
(pseudomonas aeruginosa (ATCC #27853))

15 Regulations*o Product related hazard informations:**

The product has been classified and marked in accordance with regulations on hazardous materials.

o Hazard symbols: T Tox'c**o Risk phrases: 23/25 Toxic by inhalation and if swallowed.****o Safety phrases:**

13 Keep away from food, drink and animal feeding stuffs.

o National regulations**o Additional classification according to Decree on Hazardous Materials:**

CERCLA: This product does not contain chemicals having a Reportable Quantity (RQ). SARA 311/312: May be subject to reporting.

313: Not subject to reporting. TSCA: This product is exempt under TSCA.

• 16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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.

o Department issuing MSDS: Safety & Environment Department**o Contact: Technical Service Representative****Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 08/25/1999

Reviewed on 08/10/1999

*** 1 Identification of substance:**○ **Product details:**○ **Trade name:** Staphylococcus aureus (ATCC #29213)
(BD Bactrol Plus Disk MIC Set)○ **Article number:** 237920○ **Manufacturer/Supplier:**

In the Continental United States call: Becton Dickinson Microbiology Systems 7 Loveton Circle, Sparks, Maryland 21152 Tel: (410)771-0100 or (800)638-8663

Outside the United States call: Becton Dickinson European Division 11 rue Aristide Berges BP 4 38800 Le Pont De Claix France Tel: 33 4 76 68 36 36

○ **Information department:** Technical Service Representative*** 2 Composition/Data on components:**○ **Chemical characterization:**CAS No. Description:Staphylococcus aureus (ATCC #29213)*** 3 Hazards identification**○ **Hazard description:** T Toxic○ **Information pertaining to particular dangers for man and environment**
R 23/25 Toxic by inhalation and if swallowed.○ **NFPA ratings (scale 0-4)**

Health = 3 Fire = 0 Reactivity = 0

4 First aid measures

- **General information** Immediately remove contaminated clothing.
- **After inhalation**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient on side position for transportation.
May cause bacterial infection.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult a doctor.
May cause bacterial infection.
- **After swallowing**
Call a doctor immediately.
May cause bacterial infection.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO2, extinguishing powder or water spray. Fight larger fires with water or alcohol resistant foam.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Dispose of the collected material according to regulations.
Disinfect area with 10 percent hypochlorite solution (bleach) for at least 15 minutes.

• **7 Handling and storage**

○ **Handling**

- **Information for safe handling:** Prevent formation of dust.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.

○ **Storage**

- **Requirements to be met by storerooms and receptacles:** 2 - 8 °C
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
- **Class according to regulation on flammable liquids:** Void

• **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

○ **Additional information:**

The lists that were valid during the creation were used as basis.

○ **Personal protective equipment**

○ **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Use a biological Safety cabinet.

○ **Breathing equipment:**

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

○ **Protection of hands:**

Not required.
Protective gloves.

○ **Eye protection:** Safety glasses

○ **Body protection:** Protective work clothing.

• **9 Physical and chemical properties:**

○ **Form:**

Sol'd.

Powder

○ **Color:** According to product specification

○ **Odor:** Characteristic

○

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
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○ **Change in condition**

○ **Melting point/Melting range:** Undetermined

○ **Boiling point/Boiling range:** Undetermined

○ **Flash point:** Not applicable

○ **Danger of explosion:**

Product does not present an explosion hazard.

○ **Density:** Not determined

○ **Solubility in / Miscibility with**

○ **Water:** Insoluble

• **10 Stability and reactivity**

○ **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

○ **Dangerous reactions** No dangerous reactions known

○ **Dangerous products of decomposition:**

No dangerous decomposition products known

• ***11 Toxicological information**

○ **Acute toxicity:**

○ **Primary irritant effect:**

○ **on the skin:** No irritant effect.

○ **on the eye:** No irritating effect.

○ **Sensitization:** No sensitizing effects known.

○ **Additional toxicological information:**

Bactrol Plus Disks are not chemicals but are live, lab attenuated microorganisms. They are capable of causing disease in animal and man, especially individuals with a suppressed immune system.

- **12 Ecological information:**

- **Ecotoxical effects:**

- **Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- **General notes:** Not known to be hazardous to water.

- **13 Disposal considerations**

- **Product:**

- **Recommendation**

Must adhere to state and federal regulations.

Disinfect with sodium hypochlorite, or incinerate, or autoclave at 121 C for at least 15 minutes before disposing.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to regulations found in 40 CFR 261

• ***14 Transport information**

- DOT regulations:
- Hazard class: 6.2
- Identification number: UN2814
- Packing group: -
- Proper shipping name (technical name):
Infectious substance, affecting humans
(staphylococcus aureus (ATCC #29213))
- Land transport ADR/RID (cross-border)
- ADR/RID class: 6.2 Substances that are nauseating and bear the risk of infection.
- Item: 3b
- Danger code (Kemler): 606
- UN-Number: 2814
- Description of goods: 2814 Infectious substance, affecting humans
(staphylococcus aureus (ATCC #29213))
- Maritime transport IMDG:
- IMDG Class: 6.2
- Page: 6321
- UN Number: 2814
- Packaging group: -
- MFAG: -
- Marine pollutant: No
- Proper shipping name: Infectious substance, affecting humans
(staphylococcus aureus (ATCC #29213))
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 6.2
- UN/ID Number: 2814
- Packaging group: -
- Proper shipping name: Infectious substance, affecting humans
(staphylococcus aureus (ATCC #29213))

- ***15 Regulations**

- **Product related hazard informations:**

- The product has been classified and marked in accordance with regulations on hazardous materials.

- **Hazard symbols:** T Tox'c

- **Risk phrases:** 23/25 Toxic by inhalation and if swallowed.

- **Safety phrases:**

- 13 .Keep away from food, drink and animal feeding stuffs.

- **National regulations**

- **Additional classification according to Decree on Hazardous Materials:**

- CERCLA: This product does not contain chemicals having a Reportable Quantity (RQ). SARA 311/312: May be subject to reporting.

- 313: Not subject to reporting. TSCA: This product is exempt under TSCA.

- **16 Other information:**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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.

- **Department issuing MSDS:** Safety & Environment Department

- **Contact:** Technical Service Representative