

MATERIAL SAFETY DATA SHEET

Prepared in accordance with EU directive 91/155/EEC

Printed: 28.12.2006

Revised: 28.12.2006

1 Idei	ntification of the substance/preparation and of the company/undertaking
· Prod	luct details
	de name: <u>PstI</u> . <u>FastDigestTM PstI</u> lication of the substance / the preparation: Laboratory chemicals
Fern V.Gr LT-0 Lithi Tel.:	nufacturer/Supplier: nentas UAB raiciuno 8 02241 Vilnius uania : +370 5 2602131 : +370 5 2602142
Plea Con	t her information obtainable from: use visit our site: http://www.fermentas.com/ tact us: info@fermentas.com contact Fermentas distributor in your country.
Pois	rmation in case of emergency: con Information Centre, Mainz, Germany, : +49 (0)6131 19240 / 24h

2 Composition/information on ingredients

· Chemical characterization

· Description: Solution, consisting of the following components.

· Components:		
CAS: 56-81-5	glycerol	>50%
EINECS: 200-289-5		25.500/
CAS: 7732-18-5 EINECS: 231-791-2	water	25-50%
CAS: 7647-14-5 EINECS: 231-598-3	sodium chloride	1-2,5%
041. cm. c.		

· Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

• Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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Printed: 28.12.2006

Trade name: PstI

Revised: 28.12.2006

rade name: PstI

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

• Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- *Measures for environmental protection: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- *Ingredients 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 valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Trade name: PstI

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· Respiratory protection: Not required.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• *Eye protection: Goggles recommended during refilling*

9 Physical and chemical properties

· General Information	
Form:	Solution
Colour:	Colourless
Odour:	Nearly odourless
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
· Density at 20°C:	1,16 g/cm ³
· Solubility in / Miscibility with	
water:	Fully miscible.
· pH-value at 25°C:	7,4

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Dangerous reactions No dangerous reactions known.

• Dangerous decomposition products: No dangerous decomposition products known.

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Printed: 28.12.2006

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Trade name: PstI

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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:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

• Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulatory information

- Labelling according to EU guidelines:
- Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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Revised: 28.12.2006

Trade name: PstI

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16 Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.



MATERIAL SAFETY DATA SHEET

Prepared in accordance with EU directive 91/155/EEC

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Poison Information Centre, Mainz, Germany, Tel.: +49 (0)6131 19240 / 24h

2 Composition/information on ingredients

· Chemical characterization

· Description: Solution, consisting of the following components.

· Comp	onents:
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componentis.		
CAS: 7732-18-5	water	>50%
EINECS: 231-791-2		
CAS: 1185-53-1 EINECS: 214-684-5	2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride	2,5-10%
CAS: 7647-14-5 EINECS: 231-598-3	sodium chloride	2,5-10%

· Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

• Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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Trade name: 10x Buffer O

(Contd. of page 1)

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

• Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- *Measures for environmental protection: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- *Ingredients 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 valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Trade name: 10x Buffer O

(Contd. of page 2)

· Respiratory protection: Not required.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• *Eye protection: Goggles recommended during refilling*

9 Physical and chemical properties

· General Information	
Form:	Solution
Colour:	Colourless
Odour:	Odourless
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
· Density at 20°C:	1,07 g/cm ³
· Solubility in / Miscibility with	
water:	Fully miscible.
· pH-value at 37°C:	7,5

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Dangerous reactions No dangerous reactions known.

• Dangerous decomposition products: No dangerous decomposition products known.

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ΕU

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Trade name: 10x Buffer O

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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:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

• Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulatory information

• Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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Trade name: 10x Buffer O

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16 Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.



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Identificat	on of the substance/preparation and of the company/undertaking
Product deta	ils
	<u>10x Buffer Tangom</u> of the substance / the preparation: Laboratory chemicals
Manufacture Fermentas U V.Graiciuno LT-02241 Vi Lithuania Tel.: +370 5 Fax.: +370 5	AB 8 inius 2602131
Please visit of Contact us: i	rmation obtainable from: ur site: http://www.fermentas.com/ nfo@fermentas.com ermentas distributor in your country.
Poison Inform	in case of emergency: nation Centre, Mainz, Germany, 6131 19240 / 24h

2 Composition/information on ingredients

· Chemical characterization

· Description: Solution, consisting of the following components.

· Components:

· Components.		
CAS: 7732-18-5 EINECS: 231-791-2	water	>50%
CAS: 127-08-2 EINECS: 204-822-2	potassium acetate	2,5-10%
CAS: 6850-28-8 EINECS: 229-939-6	[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]ammonium acetate	2,5-10%
CAS: 142-72-3 EINECS: 205-554-9	magnesium di(acetate)	1-2,5%

· Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

• Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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Printed: 28.12.2006

Revised: 23.12.2006

Trade name: 10x Buffer TangoTM

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· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

• Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- *Measures for environmental protection: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- Information about fire and explosion protection: No special measures required.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- *Ingredients 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 valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Trade name: 10x Buffer TangoTM

(Contd. of page 2)

• **Respiratory protection:** Not required.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

· General Information	
Form:	Solution
Colour:	Colourless
Odour:	Odourless
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
• Density at 20°C:	1,05 g/cm ³
· Solubility in / Miscibility with	
water:	Fully miscible.
· pH-value at 37°C:	7,9

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• Dangerous reactions No dangerous reactions known.

· Dangerous decomposition products: No dangerous decomposition products known.

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Trade name: 10x Buffer TangoTM

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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:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

• Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulatory information

• Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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Trade name: 10x Buffer TangoTM

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16 Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.



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Prod	uct details
	e name: <u>10x FastDigestTM Buffer</u> ication of the substance / the preparation: Laboratory chemicals
Ferr V.Gi LT-(Lith Tel	ufacturer/Supplier: entas UAB aiciuno 8 2241 Vilnius ania +370 5 2602131 +370 5 2602142
Plea Con	ner information obtainable from: e visit our site: http://www.fermentas.com/ act us: info@fermentas.com ontact Fermentas distributor in your country.
Pois	mation in case of emergency: n Information Centre, Mainz, Germany, +49 (0)6131 19240 / 24h

· Chemical characterization

· Description: Solution, consisting of the following components.

· Components:

CAS: 7732-18-5 water EINECS: 231-791-2

· Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

• Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· General information: No special measures required.

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>50%

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Trade name: 10x FastDigestTM Buffer

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- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- · Measures for environmental protection:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients 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 valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands:
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Trade name: 10x FastDigestTM Buffer

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· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
- · Primary irritant effect:
- \cdot on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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Trade name: 10x FastDigestTM Buffer

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EU

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

• *Recommendation: Smaller quantities can be disposed of with household waste.*

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· Land transport ADR/RID (cross-border)

· ADR/RID class:

· Maritime transport IMDG:

· IMDG Class:

• Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

15 Regulatory information

· Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

16 Other information

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Fermentas is not held liable for any damage resulting from handling or from contact with the above mentioned products.