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Phenylketonuria (PKU) Screening Kit (400/1000 tests)

## **MATERIAL SAFETY DATA SHEET**

Kit Components

	Description	Quantity	REF	Quantity	REF
Component		400 tests	5610-01	1,000 tests	5610-02
Enzyme Reagent	Bacterial Recombinant Phenylalanine Dehydrogenase and Diaphorase in buffer with stabiliser and preservative	2 x 2ml	5511-01	5 x 2ml	5511-01
Enzyme Buffer	Buffer solution with detergent, stabiliser and preservative	1 x 20ml	5512-01	1 x 50ml	5512-02
Coenzyme Reagent	Dry powder of NAD+ and Tetrazolium dye with buffer and preservative	2 vials	5513-01	5 vials	5513-01
Phenylalanine Standards and Controls	Human dry blood spots on Whatman 903 <sup>®</sup> paper with four different phenylalanine concentrations as a calibrator (S1, S2, S3, S4) and two controls with low (C1) and high (C2) phenylalanine levels	1 set	5516-01	1 set	5516-01

### Date: January 2009

### Enzyme Reagent (Reagent 1)

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#### SECTION 1; IDENTIFICATION OF SUBSTANCE

Product details: Trade name:

Enzyme Reagent (Reagent 1)

Part Number: 5511-01

Application of the substance/the preparation In-vitro laboratory reagent or component Manufacturer/Supplier:

- Enzolve Technologies Ltd., Belfield Innovation Park, University College Dublin, Belfield, Dublin 4, Ireland
- Tel 00 353 1 716 3633 Fax 00 353 1 716 3632

**Information department:** Technical services, customer support. **Emergency information:** 00 353 1 716 3633

#### SECTION 2; HAZARDS IDENTIFICATION

#### Hazard description: not applicable

#### Information pertaining to particular dangers for man 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 was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

#### SECTION 3; COMPOSITION / INFORMATION ON INGREDIENTS

• **Description:** Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

EINECS: 247-852-1	CAS: 26628-22-8 EINECS: 247-852-1	Sodium azide	T+, N; R 28-32-50/53	0.095%
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#### SECTION 4; FIRST AID MEASURES

#### **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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. Then consult a doctor.
- After swallowing Call for a doctor immediately.

#### SECTION 5; FIRE FIGHTING MEASURES

• **Suitable extinguishing agents** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: No special measures required.

#### SECTION 6; ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Not required.

• Measures for environmental protection: Dilute with plenty of water.

#### Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

#### SECTION 7; HANDLING AND STORAGE

#### · Handling

- · Information for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
   Storage
- Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

#### SECTION 8; EXPOSURE CONTROLS AND PERSONNEL PROTECTION

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

#### · Components with limit values that require monitoring at the workplace:

#### 26628-22-8 sodium azide

OES Short-term value: 0.3 mg/m<sup>3</sup>

Long-term value: 0.1 mg/m<sup>3</sup>

#### as $NaN_3$ , New, IOELV, Sk

· 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.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves

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: Safety glasses

#### SECTION 9; PHYSICAL AND CHEMICAL PROPERTIES

General Information Form: Fluid Colour: Colourless Odour: Odourless • Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: 100°C • Flash point: Not applicable • Self igniting: Product is not selfigniting. • Danger of explosion: Product does not present an explosion hazard. • Density at 20°C: 0.99569 g/cm<sup>3</sup> • Solubility in / Miscibility with Water: Fully miscible • pH-value at 20°C; 8.0

- · Solvent content:
- Organic solvents: 0.0 %
- Water: >99 %

#### SECTION 10; STABILITY AND REACTIVITY

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· Dangerous products of decomposition: No dangerous decomposition products known

#### SECTION 11; TOXICOLOGICAL INFORMATION

Sodium Azide at 100% concentration; Oral admission to mouse- LD50 27 mg kg<sup>-1</sup> Oral admission to women- 14 mg kg<sup>-1</sup> Oral admission to man- 29 mg kg<sup>-1</sup> Administration onto rat skin- 50 mg kg<sup>-1</sup>

Sodium Azide at concentration presented in product;

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitising 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.

#### SECTION 12; ECOLOGICAL INFORMATION

· General notes: Generally not hazardous for water.

#### SECTION 13; DISPOSAL CONSIDERATIONS

#### · Product:

#### · Recommendation

Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

• Uncleaned packagings:

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

#### SECTION 14; TRANSPORT INFORMATION

· Land transport ADR/RID (cross-border)- · ADR/RID class: - No limitation for road transport

Maritime transport IMDG: · IMDG Class: - No limitation for sea transport

· Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - No limitation for air transport

#### SECTION 15; REGULATIONS

#### · Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

 $\cdot$  Code letter and hazard designation of product:  $\ensuremath{\mathsf{NA}}$ 

· Hazard-determining components of labelling:

- None
- · Risk phrases:
- NA .
- · Safety phrases:
- NA
- · National regulations
- Water hazard class: Generally not hazardous for water.

#### SECTION 16; OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Scientific
- Contact: Customer Services

### Enzyme Buffer (Reagent 2)

### Revision 01 PAGE 1 OF 4

#### SECTION 1; IDENTIFICATION OF SUBSTANCE

#### Product details: Trade name:

#### Enzyme Buffer (reagent 2)

Part Number: 5512-01 (20 ml), 5512-02 (50 ml) Application of the substance / the preparation In-vitro laboratory reagent or component Manufacturer/Supplier:

- Enzolve Technologies Ltd., Belfield Innovation Park, University College Dublin. Ireland
- Tel 00 353 1 716 3633 Fax 00 353 1 716 3632

**Information department:** Technical services, customer support. **Emergency information:** 00 353 1 716 3633

#### SECTION 2; HAZARDS IDENTIFICATION

#### Hazard description: not applicable

Information pertaining to particular dangers for man 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 was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

#### SECTION 3; COMPOSITION / INFORMATION ON INGREDIENTS

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 26628-22-8	sodium azide	T+, N; R 28-32-50/53	0.095%
EINECS: 247-852-1			

#### SECTION 4; FIRST AID MEASURES

#### General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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. Then consult a doctor.
- After swallowing Call for a doctor immediately.

#### SECTION 5; FIRE FIGHTING MEASURES

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Protective equipment: No special measures required.

#### SECTION 6; ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Not required.

- Measures for environmental protection: Dilute with plenty of water.
- Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

#### **SECTION 7:** HANDLING AND STORAGE

Handling

• Information for safe handling: No special precautions are necessary if used correctly.

- · Information about protection against explosions and fires: No special measures required.
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

#### EXPOSURE CONTROLS AND PERSONNEL PROTECTION SECTION 8;

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

#### · Components with limit values that require monitoring at the workplace:

#### 26628-22-8 sodium azide

OES Short-term value: 0.3 mg/m<sup>3</sup>

Long-term value: 0.1 mg/m<sup>3</sup>

- as NaN3, New, IOELV, Sk
- · 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.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves
- 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: Safety glasses

#### **SECTION 9;** PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information** Form: Fluid

**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: undetermined
- · Solubility in / Miscibility with
- Water: Fully miscible
- pH-value at 20°C: 10.5
- · Solvent content:
- · Organic solvents: 0.0 %
- Water: >95 %

#### SECTION 10; STABILITY AND REACTIVITY

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive

compounds of lead azide and copper azide.

Dangerous products of decomposition: No dangerous decomposition products known

#### SECTION 11; TOXICOLOGICAL INFORMATION

Sodium Azide at 100% concentration; Oral admission to mouse- LD50 27 mg kg<sup>-1</sup> Oral admission to women- 14 mg kg<sup>-1</sup> Oral admission to man- 29 mg kg<sup>-1</sup> Administration onto rat skin- 50 mg kg<sup>-1</sup>

Sodium Azide at concentration presented in product;

- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitising 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.

#### SECTION 12; ECOLOGICAL INFORMATION

· General notes: Generally not hazardous for water.

#### SECTION 13; DISPOSAL CONSIDERATIONS

#### · Product:

#### Recommendation

Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

• Uncleaned packagings:

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

#### SECTION 14; TRANSPORT INFORMATION

· Land transport ADR/RID (cross-border)- · ADR/RID class: - No limitation for road transport

Maritime transport IMDG: · IMDG Class: - No limitation for sea transport

• Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - No limitation for air transport

#### SECTION 15; REGULATIONS

#### · Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

 $\cdot$  Code letter and hazard designation of product:  $\ensuremath{\mathsf{NA}}$ 

· Hazard-determining components of labelling:

- None
- · Risk phrases:
- NA .
- · Safety phrases:
- NA
- · National regulations
- Water hazard class: Generally not hazardous for water.

#### SECTION 16; OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Scientific
- Contact: Customer Services

### Coenzyme Reagent (Reagent 3) Revision 01 PAGE 1 OF 4

#### SECTION 1; IDENTIFICATION OF SUBSTANCE

#### Product details: Trade name:

Coenzyme Reagent (Reagent 3)

Part Number 5513-01

- Application of the substance / the preparation In-vitro laboratory reagent or component Manufacturer/Supplier:
- Enzolve Technologies Ltd., Belfield Innovation Park, University College Dublin. Ireland
- · Tel 00 353 1 716 3633 Fax 00 353 1 716 3632

**Information department:** Technical services, customer support. **Emergency information:** 00 353 1 716 3633

#### SECTION 2; HAZARDS IDENTIFICATION

#### Hazard description: not applicable

#### Information pertaining to particular dangers for man 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 was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

#### SECTION 3; COMPOSITION / INFORMATION ON INGREDIENTS

• Description: Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 26628-22-8	sodium azide	T+, N; R 28-32-50/53	0.095%
EINECS: 247-852-1			

#### SECTION 4; FIRST AID MEASURES

#### **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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. Then consult a doctor.

• After swallowing Call for a doctor immediately.

#### SECTION 5; FIRE FIGHTING MEASURES

• **Suitable extinguishing agents** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Protective equipment: No special measures required.

#### SECTION 6; ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Not required.

· Measures for environmental protection: Dilute with plenty of water.

• Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

#### SECTION 7; HANDLING AND STORAGE

· Handling

• Information for safe handling: No special precautions are necessary if used correctly.

• Information about protection against explosions and fires: No special measures required.

· Storage

• Requirements to be met by storerooms and receptacles: According to product specification

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

#### SECTION 8; EXPOSURE CONTROLS AND PERSONNEL PROTECTION

Additional information about design of technical systems: No further data; see item 7.
Components with limit values that require monitoring at the workplace:

#### 26628-22-8 sodium azide

OES Short-term value: 0.3 mg/m<sup>3</sup>

Long-term value: 0.1 mg/m<sup>3</sup>

as NaN3, New, IOELV, Sk

· 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.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves

#### 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: Safety glasses

#### SECTION 9; PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Form: Powder Colour: Yellow 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: undetermined
- · Solubility in / Miscibility with
- Water: Fully miscible
- · pH-value at 20°C: undetermined
- · Solvent content:
- Organic solvents: 0.0 %
- · Water: 0%

#### SECTION 10; STABILITY AND REACTIVITY

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· Dangerous products of decomposition: No dangerous decomposition products known

#### SECTION 11; TOXICOLOGICAL INFORMATION

Sodium Azide at 100% concentration; Oral admission to mouse- LD50 27 mg kg<sup>-1</sup> Oral admission to women- 14 mg kg<sup>-1</sup> Oral admission to man- 29 mg kg<sup>-1</sup> Administration onto rat skin- 50 mg kg<sup>-1</sup>

Sodium Azide at concentration presented in product;

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant 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.

#### SECTION 12; ECOLOGICAL INFORMATION

· General notes: Generally not hazardous for water.

#### SECTION 13; DISPOSAL CONSIDERATIONS

#### · Product:

#### · Recommendation

Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

• Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

#### SECTION 14; TRANSPORT INFORMATION

· Land transport ADR/RID (cross-border)- · ADR/RID class: - No limitation for road transport

· Maritime transport IMDG: · IMDG Class: - No limitation for sea transport

Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - No limitation for air transport

#### SECTION 15; REGULATIONS

#### · Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

 $\cdot$  Code letter and hazard designation of product:  $\ensuremath{\mathsf{NA}}$ 

· Hazard-determining components of labelling:

- None
- · Risk phrases:
- NA .
- · Safety phrases:
- NA
- National regulations
- Water hazard class: Generally not hazardous for water.

#### SECTION 16; OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Scientific
- Contact: Customer Services

# Phenylalanine Standards and ControlsRevision 01PAGE 1 OF 3

SECTION 1; IDENTIFICATION OF SUBSTANCE

#### Product details:

Trade name: Phenylalanine Standards and Controls

5516-01

Part Number:

Application of the substance / the preparation In-vitro laboratory reagent or component Manufacturer/Supplier:

- Enzolve Technologies Ltd., Belfield Innovation Park, University College Dublin. Ireland
- · Tel 00 353 1 716 3633 Fax 00 353 1 716 3632

**Information department:** Technical services, customer support. **Emergency information:** 00 353 1 716 3633

#### SECTION 2; HAZARDS IDENTIFICATION

#### Hazard description: not applicable

Information pertaining to particular dangers for man 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 was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

#### SECTION 3; COMPOSITION / INFORMATION ON INGREDIENTS

- · Chemical characterization:
- · CAS No. Description:
- Human Red Cells
- · Additonal information: Contains human sourced and/or potentially infectious components

#### SECTION 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 Induce vomiting and call for medical help.

#### SECTION 5; FIRE FIGHTING MEASURES

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Protective equipment: No special measures required.

#### SECTION 6; ACCIDENTAL RELEASE MEASURES

· Person-related safety precautions: Not required.

- Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting: Pick up mechanically.
- · Additional information: No dangerous substances are released.

#### SECTION 7; HANDLING AND STORAGE

- · Handling
- Information for safe handling: No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
   Storage
- Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

#### SECTION 8; EXPOSURE CONTROLS AND PERSONNEL PROTECTION

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

- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment

• General protective and hygienic measures The usual precautionary measures should be adhered to when handling chemicals.

- · Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves
- · 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: Not required.

#### SECTION 9; PHYSICAL AND CHEMICAL PROPERTIES

#### · General Information

Form: Solid.

Colour: Red/brown spots on white paper

- Odour: Odourless
- · Change in condition

Melting point/Melting range: undetermined

- Boiling point/Boiling range: undetermined
- · Flash point: Not applicable
- Flammability (solid, gaseous) Product is not flammable.
- Danger of explosion: Product does not present an explosion hazard.
- · Density: Not determined
- · Solubility in / Miscibility with
- Water: Soluble
- · Solids content: 100.0 %

#### SECTION 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

#### SECTION 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:

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

The substance is not subject to classification according to the latest version of the EU lists.

#### SECTION 12; ECOLOGICAL INFORMATION

General notes: Generally not hazardous for water.

#### SECTION 13; DISPOSAL CONSIDERATIONS

- · Product:
- · Recommendation

Autoclave blood products prior to disposal.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official local prevailing regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

#### SECTION 14; TRANSPORT INFORMATION

· Land transport ADR/RID (cross-border)- · ADR/RID class: - No limitation for road transport

- · Maritime transport IMDG: · IMDG Class: No limitation for sea transport
- Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - No limitation for air transport

#### SECTION 15; REGULATIONS

Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· Code letter and hazard designation of product:

NA

- · Hazard-determining components of labelling:
- None

· Risk phrases:

NA

· Safety phrases:

NA

· National regulations

· Water hazard class: Generally not hazardous for water.

#### SECTION 16; OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Scientific

Contact: Customer Services