



**Manufacturer / Supplier:**

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16.06.2014

Reference No.	Description
201626, 201633, 226414, 201640	SERODIA-TP.PA

**Components:**

<i>Article description</i>	<i>Datasheet version</i>
RECONSTITUTING SOLUTION	5
SAMPLE DILUENT	5
SENSITIZED PARTICLES	5
UNSENSITIZED PARTICLES	5
POSITIVE CONTROL	5

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

Version: 5

Revision: 16.06.2014

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

- **Product identifier**
- **Trade name:** *SERODIA-TP.PA, RECONSTITUTING SOLUTION*
- **Relevant identified uses of the substance or mixture and uses advised against**  
*Not to be used for any purpose other than those mentioned below.*
- **Application of the substance / the preparation:** *Laboratory use. For product use see insert.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Fujirebio INC.*  
*2-1-1 Nishishinjuku, Shinjuku-ku, Tokyo 163-0410, Japan*  
*Tel: +81-3-6279-0899 Fax: +81-3-6279-0299*  
*E-mail: fri-info@fujirebio.co.jp*
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*European Representative :*  
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*FUJIREBIO EUROPE*  
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*Tel: +32-9-329-13-29*  
*Mon - Fri 9:00am to 5:30pm*

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Information concerning particular hazards for human and environment:**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- 
- **Label elements**
  - **Labelling according to EU guidelines:**  
*The product does not have to be classified according to the calculation method of Directive 1999/45/EC, latest edition.*
  - **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

## 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture: consisting of the following components.*

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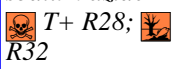
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**· Dangerous components:**

CAS: 26628-22-8 EINECS: 247-852-1	sodium azide  T+ R28; N R50/53 R32  Acute Tox. 2, H300; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.06%
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**4 First aid measures**

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Following contact with open wounds, or in case of cuts or puncture accidents:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
See section 8 (Measurements for the control of exposure / personal protection).
- **Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a dry and well-ventilated area in the closed original packaging.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Respect the expiry date and the additional instruction given in the package insert.
- **Specific end use(s)** Laboratory use.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **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.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
Wear protective gloves in order to be protected against chemical risks according to EN 420 and EN 374-1.
- **Material of gloves:** Gloves made of latex, nitrile or PVC may be used.
- **Penetration time of glove material:**  
As the product is a preparation consisting of different substances, no specific information can be given about breakthrough times.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety glasses in order to protect your eyes against chemical splashes according to EN 166.
- **Body protection:**  
Wear a laboratory coat for your protection against chemical splashes according to EN 340 and EN 369.
- **Limitation and supervision of exposure into the environment**  
Comply with the current local and national environmental regulations.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Light yellow
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
- **pH-value:** 7.0-7.6
- **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.

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· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solids content:</b>	0.1 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Production of highly poisonous gases/vapours in contact with acids.  
Reacts with various metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Production of explosive azides in contact with lead, copper and zinc.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**26628-22-8 sodium azide**

Oral LC50/96 h 0.7 mg/l (*L. macrochirus*)

0.8 mg/l (*Onchorhynchus mykiss*)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

The product contains materials that are harmful to the environment.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Dispose of contents in accordance with local / regional/ national/ international regulations.

· **Uncleaned packaging:**

· **Recommendation:** Dispose of container in accordance with local/regional/national/international regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **UN-Number** -

· **ADR, ADN, IMDG, IATA** -

· **UN proper shipping name**

· **ADR** -

· **ADN, IMDG, IATA** -

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** -

· **Packing group**

· **ADR, IMDG, IATA** -

· **Environmental hazards:**

· **Marine pollutant:** No

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Remarks:** Not restricted.

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- |                   |                 |
|-------------------|-----------------|
| · <b>IMDG</b>     |                 |
| · <b>Remarks:</b> | Not restricted. |
| <hr/>             |                 |
| · <b>IATA</b>     |                 |
| · <b>Remarks:</b> | Not restricted. |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The data indicated in these documents is provided in good faith and according to the current state of our knowledge. We will accept no liability for the consequences if the product is used for applications different to that intended. It is the responsibility of the consumer to ensure that all regulations concerning protection of human beings and environment are complied with during the handling, storage and use of the products.

- **Relevant phrases**

H300 Fatal if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R28 Very toxic if swallowed.

R32 Contact with acids liberates very toxic gas.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **\* Data compared to the previous version altered.**

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Printing date: 16.06.2014



Version: 5

Revision: 16.06.2014

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

- **Product identifier**
- **Trade name:** SERODIA-TP.PA, Sample Diluent
- **Relevant identified uses of the substance or mixture and uses advised against**  
Not to be used for any purpose other than those mentioned below.
- **Application of the substance / the preparation:** Laboratory use. For product use see insert.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fujirebio INC.  
2-1-1 Nishishinjuku, Shinjuku-ku, Tokyo 163-0410, Japan  
Tel: +81-3-6279-0899 Fax: +81-3-6279-0299  
E-mail: fri-info@fujirebio.co.jp
- **Further information obtainable from:**  
European Representative :  
Fujirebio Europe N.V.  
Tel: +32-9-329.13.29  
Fax: +32-9-329.19.11  
E-mail: hse@fujirebio-europe.com
- **Emergency telephone number:**  
FUJIREBIO INC. (Japan) Global Sales Department  
Tel: +81-3-6279-0899  
Mon - Fri 9:00am to 5:30pm (JST)  
FUJIREBIO EUROPE  
Technologiepark 6, 9052 Gent, Belgium  
Tel: +32-9-329-13-29  
Mon - Fri 9:00am to 5:30pm

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xn; Harmful  
R22: Harmful if swallowed.  
R32: Contact with acids liberates very toxic gas.
- **Classification system:** The product must be classified according to Directive 1999/45/EG, latest edition.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product must be classified in accordance with the calculation method of Directive 1999/45/EG, latest edition.
- **Code letter and hazard designation of product:**  
 Xn Harmful
- **Hazard-determining components of labelling:**  
sodium azide
- **Risk phrases:**  
22 Harmful if swallowed.  
32 Contact with acids liberates very toxic gas.
- **Safety phrases:**  
28 After contact with skin, wash immediately with plenty of water.  
46 If swallowed, seek medical advice immediately and show this container or label.  
60 This material and its container must be disposed of as hazardous waste.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

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Trade name: **SERODIA-TP.PA, Sample Diluent**






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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

#### · **Dangerous components:**

CAS: 26628-22-8	sodium azide	0.1%
EINECS: 247-852-1	 T+ R28;  N R50/53	
	R32	
	 Acute Tox. 2, H300;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410	

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Following contact with open wounds, or in case of cuts or puncture accidents:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
See section 8 (Measurements for the control of exposure / personal protection).
- **Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a dry and well-ventilated area in the closed original packaging.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Respect the expiry date and the additional instruction given in the package insert.
- **Specific end use(s)** Laboratory use.

## 8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

**26628-22-8 sodium azide**

WEL	Short-term value: 0.3 mg/m <sup>3</sup>
	Long-term value: 0.1 mg/m <sup>3</sup>
	(as NaN <sub>3</sub> ), Sk

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
Wear protective gloves in order to be protected against chemical risks according to EN 420 and EN 374-1.
- **Material of gloves:** Gloves made of latex, nitrile or PVC may be used.
- **Penetration time of glove material:**  
As the product is a preparation consisting of different substances, no specific information can be given about breakthrough times.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety glasses in order to protect your eyes against chemical splashes according to EN 166.
- **Body protection:**  
Wear a laboratory coat for your protection against chemical splashes according to EN 340 and EN 369.
- **Limitation and supervision of exposure into the environment**  
Comply with the current local and national environmental regulations.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Fluid
- **Colour:** Light yellow
- **Odour:** Odourless

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· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	6.7-7.3
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Product is not flammable.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solids content:</b>	0.1 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Production of highly poisonous gases/vapours in contact with acids.  
Reacts with various metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Production of explosive azides in contact with lead, copper and zinc.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

26628-22-8 sodium azide

Oral	LD50	27 mg/kg (rat)
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Dermal	LD50	20 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
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

- **Toxicity**

- **Aquatic toxicity:**

**26628-22-8 sodium azide**

Oral	LC50/96 h	0.7 mg/l ( <i>L. macrochirus</i> )
		0.8 mg/l ( <i>Onchorhynchus mykiss</i> )

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
The product contains materials that are harmful to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Dispose of contents in accordance with local / regional/ national/ international regulations.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of container in accordance with local/regional/national/international regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- |                                     |    |
|-------------------------------------|----|
| · <b>UN-Number</b>                  | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>UN proper shipping name</b>    | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>Transport hazard class(es)</b> | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>Class</b>                      | -  |
| · <b>Packing group</b>              | -  |
| · <b>ADR, IMDG, IATA</b>            | -  |
| · <b>Environmental hazards:</b>     |    |
| · <b>Marine pollutant:</b>          | No |

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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**      *Not applicable.*

· **Transport/Additional information:**

· **ADR**

· **Remarks:**      *Not restricted.*

· **IMDG**

· **Remarks:**      *Not restricted.*

· **IATA**

· **Remarks:**      *Not restricted.*

### 15 Regulatory information

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

· **National regulations:**

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*The data indicated in these documents is provided in good faith and according to the current state of our knowledge. We will accept no liability for the consequences if the product is used for applications different to that intended. It is the responsibility of the consumer to ensure that all regulations concerning protection of human beings and environment are complied with during the handling, storage and use of the products.*

· **Relevant phrases**

*H300 Fatal if swallowed.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*R28 Very toxic if swallowed.*

*R32 Contact with acids liberates very toxic gas.*

*R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· **Remarks:** *The limit values in section 8 are only valid for Great Britain.*

· **\* Data compared to the previous version altered.**

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

Version: 5

Revision: 16.06.2014

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

- **Product identifier**
- **Trade name:** *SERODIA-TP.PA, SENSITIZED PARTICLES*
- **Relevant identified uses of the substance or mixture and uses advised against**  
*Not to be used for any purpose other than those mentioned below.*
- **Application of the substance / the preparation:** *Laboratory use. For product use see insert.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Fujirebio INC.*  
*2-1-1 Nishishinjuku, Shinjuku-ku, Tokyo 163-0410, Japan*  
*Tel: +81-3-6279-0899 Fax: +81-3-6279-0299*  
*E-mail: fri-info@fujirebio.co.jp*
- **Further information obtainable from:**  
*European Representative :*  
*Fujirebio Europe N.V.*  
*Tel: +32-9-329.13.29*  
*Fax: +32-9-329.19.11*  
*E-mail: hse@fujirebio-europe.com*
- **Emergency telephone number:**  
*FUJIREBIO INC. (Japan) Global Sales Department*  
*Tel: +81-3-6279-0899*  
*Mon - Fri 9:00am to 5:30pm (JST)*  
*FUJIREBIO EUROPE*  
*Technologiepark 6, 9052 Gent, Belgium*  
*Tel: +32-9-329-13-29*  
*Mon - Fri 9:00am to 5:30pm*

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Information concerning particular hazards for human and environment:**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- 
- **Label elements**
  - **Labelling according to EU guidelines:**  
*The product does not have to be classified according to the calculation method of Directive 1999/45/EC, latest edition.*
  - **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

## 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Preparation*

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GB

**Safety data sheet**  
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Trade name: SERODIA-TP.PA, SENSITIZED PARTICLES

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· **Dangerous components:**

CAS: 26628-22-8 EINECS: 247-852-1	sodium azide  T+ R28;  N R50/53 R32  Acute Tox. 2, H300;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.1%
--------------------------------------	---	-------

· **Additional information:** For the wording of the listed risk phrases refer to section 16.**4 First aid measures**

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Following contact with open wounds, or in case of cuts or puncture accidents:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
See section 8 (Measurements for the control of exposure / personal protection).
- **Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

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Revision: 16.06.2014

Trade name: SERODIA-TP.PA, SENSITIZED PARTICLES

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a dry and well-ventilated area in the closed original packaging.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Respect the expiry date and the additional instruction given in the package insert.
- **Specific end use(s)** Laboratory use.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **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.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
Wear protective gloves in order to be protected against chemical risks according to EN 420 and EN 374-1.
- **Material of gloves:** Gloves made of latex, nitrile or PVC may be used.
- **Penetration time of glove material:**  
As the product is a preparation consisting of different substances, no specific information can be given about breakthrough times.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety glasses in order to protect your eyes against chemical splashes according to EN 166.
- **Body protection:**  
Wear a laboratory coat for your protection against chemical splashes according to EN 340 and EN 369.
- **Limitation and supervision of exposure into the environment**  
Comply with the current local and national environmental regulations.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

· <b>Form:</b>	Lyophilized
· <b>Colour:</b>	Violet
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
- **pH-value:** not determined
- **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.

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(Contd. of page 3)

· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b> Not determined.	
· <b>Danger of explosion:</b> Product does not present an explosion hazard.	
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b> Not determined.	
· <b>Density:</b> Not determined.	
· <b>Relative density:</b> Not determined.	
· <b>Vapour density:</b> Not determined.	
· <b>Evaporation rate:</b> Not determined.	
· <b>Solubility in / Miscibility with water:</b> Soluble.	
· <b>Partition coefficient (n-octanol/water):</b> Not determined.	
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solids content:</b> 0.1 %	
· <b>Other information:</b> No further relevant information available.	

## 10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:**  
Production of highly poisonous gases/vapours in contact with acids.  
Reacts with various metals.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Production of explosive azides in contact with lead, copper and zinc.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**26628-22-8 sodium azide**

Oral	LD50	27 mg/kg (rat)
------	------	----------------

Dermal	LD50	20 mg/kg (rabbit)
--------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

GB

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Trade name: SERODIA-TP.PA, SENSITIZED PARTICLES

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### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**26628-22-8 sodium azide**

Oral	LC50/96 h	0.7 mg/l ( <i>L. macrochirus</i> )
------	-----------	------------------------------------

		0.8 mg/l ( <i>Onchorhynchus mykiss</i> )
--	--	--

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
The product contains materials that are harmful to the environment.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Dispose of contents in accordance with local / regional/ national/ international regulations.

· **Uncleaned packaging:**

· **Recommendation:** Dispose of container in accordance with local/regional/national/international regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **UN-Number** -

· **ADR, ADN, IMDG, IATA** -

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA** -

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** -

· **Packing group**

· **ADR, IMDG, IATA** -

· **Environmental hazards:**

· **Marine pollutant:** No

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Remarks:** Not restricted.

· **IMDG**

· **Remarks:** Not restricted.

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Revision: 16.06.2014

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· **IATA**  
· **Remarks:** *Not restricted.*

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*The data indicated in these documents is provided in good faith and according to the current state of our knowledge. We will accept no liability for the consequences if the product is used for applications different to that intended. It is the responsibility of the consumer to ensure that all regulations concerning protection of human beings and environment are complied with during the handling, storage and use of the products.*

- **Relevant phrases**

*H300 Fatal if swallowed.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*R28 Very toxic if swallowed.*

*R32 Contact with acids liberates very toxic gas.*

*R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

- **\* Data compared to the previous version altered.**

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

Version: 5

Revision: 16.06.2014

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

- **Product identifier**
- **Trade name:** *SERODIA-TP.PA, Unsensitized Particles*
- **Relevant identified uses of the substance or mixture and uses advised against**  
*Not to be used for any purpose other than those mentioned below.*
- **Application of the substance / the preparation:** *Laboratory use. For product use see insert.*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Fujirebio INC.*  
*2-1-1 Nishishinjuku, Shinjuku-ku, Tokyo 163-0410, Japan*  
*Tel: +81-3-6279-0899 Fax: +81-3-6279-0299*  
*E-mail: fri-info@fujirebio.co.jp*
- **Further information obtainable from:**  
*European Representative :*  
*Fujirebio Europe N.V.*  
*Tel: +32-9-329.13.29*  
*Fax: +32-9-329.19.11*  
*E-mail: hse@fujirebio-europe.com*
- **Emergency telephone number:**  
*FUJIREBIO INC. (Japan) Global Sales Department*  
*Tel: +81-3-6279-0899*  
*Mon - Fri 9:00am to 5:30pm (JST)*  
*FUJIREBIO EUROPE*  
*Technologiepark 6, 9052 Gent, Belgium*  
*Tel: +32-9-329-13-29*  
*Mon - Fri 9:00am to 5:30pm*

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Information concerning particular hazards for human and environment:**  
*Not applicable.*  
*Harmless preparation within the sense of Directive 1999/45/EC, latest edition.*
  - **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- 
- **Label elements**
  - **Labelling according to EU guidelines:**  
*The product does not have to be classified according to the calculation method of Directive 1999/45/EC, latest edition.*
  - **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** *Not applicable.*
  - **vPvB:** *Not applicable.*

## 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Preparation*

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GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014






Version: 5

Revision: 16.06.2014

Trade name: SERODIA-TP.PA, Unsensitized Particles

(Contd. of page 1)

· **Dangerous components:**

CAS: 26628-22-8 EINECS: 247-852-1	sodium azide  T+ R28;  N R50/53 R32	<0.1%
·  Acute Tox. 2, H300;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410		

· **Additional information:** For the wording of the listed risk phrases refer to section 16.**4 First aid measures**

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Following contact with open wounds, or in case of cuts or puncture accidents:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
See section 8 (Measurements for the control of exposure / personal protection).
- **Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.

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GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014

Version: 5

Revision: 16.06.2014

Trade name: SERODIA-TP.PA, Unsensitized Particles

(Contd. of page 2)

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a dry and well-ventilated area in the closed original packaging.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Respect the expiry date and the additional instruction given in the package insert.
- **Specific end use(s)** Laboratory use.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **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.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
Wear protective gloves in order to be protected against chemical risks according to EN 420 and EN 374-1.
- **Material of gloves:** Gloves made of latex, nitrile or PVC may be used.
- **Penetration time of glove material:**  
As the product is a preparation consisting of different substances, no specific information can be given about breakthrough times.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety glasses in order to protect your eyes against chemical splashes according to EN 166.
- **Body protection:**  
Wear a laboratory coat for your protection against chemical splashes according to EN 340 and EN 369.
- **Limitation and supervision of exposure into the environment**  
Comply with the current local and national environmental regulations.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

· <b>Form:</b>	Lyophilized
· <b>Colour:</b>	Violet
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
- **pH-value:** not determined
- **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.

(Contd. on page 4)

**Safety data sheet**  
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Revision: 16.06.2014

Trade name: **SERODIA-TP.PA, Unsensitized Particles**

(Contd. of page 3)

· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solids content:</b>	0.1 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Production of highly poisonous gases/vapours in contact with acids.  
Reacts with various metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Production of explosive azides in contact with lead, copper and zinc.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**26628-22-8 sodium azide**

Oral	LD50	27 mg/kg (rat)
------	------	----------------

Dermal	LD50	20 mg/kg (rabbit)
--------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

GB

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Trade name: **SERODIA-TP.PA, Unsensitized Particles**

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### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**26628-22-8 sodium azide**

Oral	LC50/96 h	0.7 mg/l ( <i>L. macrochirus</i> )
		0.8 mg/l ( <i>Onchorhynchus mykiss</i> )

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
The product contains materials that are harmful to the environment.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Dispose of contents in accordance with local / regional/ national/ international regulations.

· **Uncleaned packaging:**

· **Recommendation:** Dispose of container in accordance with local/regional/national/international regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **UN-Number** -

· **ADR, ADN, IMDG, IATA** -

· **UN proper shipping name**

· **ADR, ADN, IMDG, IATA** -

· **Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** -

· **Packing group**

· **ADR, IMDG, IATA** -

· **Environmental hazards:**

· **Marine pollutant:** No

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Remarks:** Not restricted.

· **IMDG**

· **Remarks:** Not restricted.

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- **IATA**
- **Remarks:** *Not restricted.*

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*The data indicated in these documents is provided in good faith and according to the current state of our knowledge. We will accept no liability for the consequences if the product is used for applications different to that intended. It is the responsibility of the consumer to ensure that all regulations concerning protection of human beings and environment are complied with during the handling, storage and use of the products.*

- **Relevant phrases**

*H300 Fatal if swallowed.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*R28 Very toxic if swallowed.*

*R32 Contact with acids liberates very toxic gas.*

*R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

- **\* Data compared to the previous version altered.**

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 16.06.2014



Version: 5

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

- **Product identifier**
- **Trade name:** SERODIA-TP.PA, POSITIVE CONTROL
- **Relevant identified uses of the substance or mixture and uses advised against**  
Not to be used for any purpose other than those mentioned below.
- **Application of the substance / the preparation:** Laboratory use. For product use see insert.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fujirebio INC.  
2-1-1 Nishishinjuku, Shinjuku-ku, Tokyo 163-0410, Japan  
Tel: +81-3-6279-0899 Fax: +81-3-6279-0299  
E-mail: fri-info@fujirebio.co.jp
- **Further information obtainable from:**  
European Representative :  
Fujirebio Europe N.V.  
Tel: +32-9-329.13.29  
Fax: +32-9-329.19.11  
E-mail: hse@fujirebio-europe.com
- **Emergency telephone number:**  
FUJIREBIO INC. (Japan) Global Sales Department  
Tel: +81-3-6279-0899  
Mon - Fri 9:00am to 5:30pm (JST)  
FUJIREBIO EUROPE  
Technologiepark 6, 9052 Gent, Belgium  
Tel: +32-9-329-13-29  
Mon - Fri 9:00am to 5:30pm

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xn; Harmful  
R22: Harmful if swallowed.  
R32: Contact with acids liberates very toxic gas.
- **Classification system:** The product must be classified according to Directive 1999/45/EG, latest edition.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product must be classified in accordance with the calculation method of Directive 1999/45/EG, latest edition.
- **Code letter and hazard designation of product:**  
 Xn Harmful
- **Hazard-determining components of labelling:**  
sodium azide
- **Risk phrases:**  
22 Harmful if swallowed.  
32 Contact with acids liberates very toxic gas.
- **Safety phrases:**  
28 After contact with skin, wash immediately with plenty of water.  
46 If swallowed, seek medical advice immediately and show this container or label.  
60 This material and its container must be disposed of as hazardous waste.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

#### Dangerous components:

CAS: 26628-22-8	sodium azide	0.1%
EINECS: 247-852-1	 T+ R28;  N R50/53	
	R32	
	 Acute Tox. 2, H300;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410	

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Following contact with open wounds, or in case of cuts or puncture accidents:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.  
Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
See section 8 (Measurements for the control of exposure / personal protection).
- **Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a dry and well-ventilated area in the closed original packaging.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Respect the expiry date and the additional instruction given in the package insert.
- **Specific end use(s)** Laboratory use.

## 8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

26628-22-8 sodium azide

WEL	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup> (as NaN <sub>3</sub> ), Sk
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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**  
Wear protective gloves in order to be protected against chemical risks according to EN 420 and EN 374-1.
- **Material of gloves:** Gloves made of latex, nitrile or PVC may be used.
- **Penetration time of glove material:**  
As the product is a preparation consisting of different substances, no specific information can be given about breakthrough times.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Wear safety glasses in order to protect your eyes against chemical splashes according to EN 166.
- **Body protection:**  
Wear a laboratory coat for your protection against chemical splashes according to EN 340 and EN 369.
- **Limitation and supervision of exposure into the environment**  
Comply with the current local and national environmental regulations.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Light yellow
Odour:	Odourless

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· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	7.0 - 7.5
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Product is not flammable.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solids content:</b>	0.1 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Production of highly poisonous gases/vapours in contact with acids.  
Reacts with various metals.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Production of explosive azides in contact with lead, copper and zinc.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**26628-22-8 sodium azide**

Oral	LD50	27 mg/kg (rat)
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Dermal	LD50	20 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Additional toxicological information:**  
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

- **Toxicity**

- **Aquatic toxicity:**

**26628-22-8 sodium azide**

Oral	LC50/96 h	0.7 mg/l ( <i>L. macrochirus</i> )
		0.8 mg/l ( <i>Onchorhynchus mykiss</i> )

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
The product contains materials that are harmful to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Dispose of contents in accordance with local / regional/ national/ international regulations.
- **Uncleaned packaging:**
- **Recommendation:** Dispose of container in accordance with local/regional/national/international regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

- |                                     |    |
|-------------------------------------|----|
| · <b>UN-Number</b>                  | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>UN proper shipping name</b>    | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>Transport hazard class(es)</b> | -  |
| · <b>ADR, ADN, IMDG, IATA</b>       | -  |
| · <b>Class</b>                      | -  |
| · <b>Packing group</b>              | -  |
| · <b>ADR, IMDG, IATA</b>            | -  |
| · <b>Environmental hazards:</b>     |    |
| · <b>Marine pollutant:</b>          | No |

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· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**      *Not applicable.*

· **Transport/Additional information:**

· **ADR**

· **Remarks:**      *Not restricted.*

· **IMDG**

· **Remarks:**      *Not restricted.*

· **IATA**

· **Remarks:**      *Not restricted.*

### 15 Regulatory information

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

· **National regulations:**

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

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· **Relevant phrases**

*H300 Fatal if swallowed.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*R28 Very toxic if swallowed.*

*R32 Contact with acids liberates very toxic gas.*

*R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· **Remarks:** *The limit values in section 8 are only valid for Great Britain.*

· **\* Data compared to the previous version altered.**

GB