

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

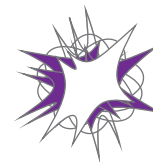
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: SERION Rf Absorbent,

Product No: Z200, Z4

Abbreviation: RF

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

*In-vitro* diagnostic or component

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

Institut Virion\Serion GmbH

Friedrich-Bergius-Ring 19

97076 Würzburg

Germany

Tel. 0049 (0) 931 – 30 45 0

Fax 0049 (0) 931 – 30 45 100

E-Mail [dialog@virion-serion.de](mailto:dialog@virion-serion.de)

#### 1.4 Emergency telephone number

Manufacturer 0049 (0) 931 – 30 45 0 (Monday to Friday, 8:30 am to 4:00 pm)

Poison Control Center 0049 (0) 228 – 19 240 (German and English)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (Regulation (EC) No. 1272/2008)**

This product is not classified in accordance to EC regulation No. 1272/2008.

**Classification (67/548/EEC or 1999/45/EC)**

This product is not classified in accordance to EC directives or respective national laws.

#### 2.2 Label elements

This product does not need to be labelled in accordance to EC directives or respective national laws.

#### 2.3 Other hazards

This product is not classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance

Not applicable.

#### 3.2 Mixture

6-AMINO-HEXANOIC ACID (EACA)

EC-No: 200-469-3;

Concentration: 0,10 % w/w

CAS-No. 60-32-2

**Classification (67/548/EEC or 1999/45/EC):**

Xi; R36/37/38

**Classification (Regulation (EC) No. 1272/2008):**

Skin Irrit. 2; H315 • Eye Irrit. 2; H319 • STOT SE 3; H335

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### SODIUM AZIDE

EC-No: 247-852-1; EINECS Annex I: 011-004-00-7;

CAS-No: 26628-22-8

Concentration: < 0,1 % w/w

#### Classification (67/548/EEC or 1999/45/EC):

T+; R28-R32 • N; R50/53

#### Classification (Regulation (EC) No. 1272/2008):

Acute Tox. 2; H300 • Aquatic Acute 1; H400 • Aquatic Chronic 1; H410

### ETHYLENEDIAMINETETRAACETIC ACID DIHYDRATE DIKALIUMSALT

EC-No: 217-895-0

CAS-No: 25102-12-9

Concentration: 0,04 % w/w

#### Classification (67/548/EEC or 1999/45/EC):

Xi; R36/37/38

#### Classification (Regulation (EC) No. 1272/2008):

Skin Irrit. 2; H315 • Eye Irrit. 2; H319 • STOT SE 3; H335

### TRIS(HYDROXYMETHYL)-AMINOMETHANE

EC-No: 201-064-4

CAS-No: 77-86-1

Concentration: 0,04 % w/w

#### Classification (67/548/EEC or 1999/45/EC):

Xi; R36/38

#### Classification (Regulation (EC) No. 1272/2008):

Skin Irrit. 2; H315 • Eye Irrit. 2; H319

### BENZAMIDINE

EC-No: 216-795-4

CAS-No: 1670-14-0

Concentration: 0,01 % w/w

#### Classification (67/548/EEC or 1999/45/EC):

Xi; R36/37/38

#### Classification (Regulation (EC) No. 1272/2008):

Skin Irrit. 2; H315 • Eye Irrit. 2; H319 • STOT SE 3; H335

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

After inhalation: Fresh air. Consult physician if feeling unwell.

After skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing. Consult physician if needed.

After eye contact: After initial flushing, remove any contact lenses and continue flushing. Continue irrigation until medical attention can be obtained.

After swallowing: Given the victim is conscious, induce vomiting. Rinse mouth and make victim drink water. Immediately consult physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Unconsciousness, dizziness, headache, nausea, vomiting, CNS symptoms.

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

Treat symptomatically.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

*Suitable extinguishing media*

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

*Unsuitable extinguishing media*

For this mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or measure**

Not combustible. Potential formation of toxic pyrolysis products. Nitrogen oxides (NO<sub>x</sub>).

**5.3 Advice for firefighters**

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**6.1.1 Advice for non-emergency personnel**

Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

**6.1.2 Advice for emergency responders**

Protective equipment see section 8.

**6.2 Environmental precautions**

Do not empty into drains.

**6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

Indications about waste treatment see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**7.1.1 Advice on safe handling**

Observe label precautions.

**7.1.2 Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions:**

Store in original container. Store at +2°C to +25°C.

**7.3 Specific end use(s)**

Apart from the intended use as per section 1.2 no other specific uses are stipulated.

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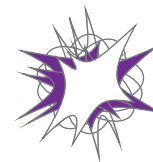
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

SODIUM AZIDE

AGW (Germany)

IOELV (EC)

Short term:	0,2 mg/m <sup>3</sup>	2(l);DFG, EU
Long term:	0,3 mg/m <sup>3</sup>	
Skin	0,1 mg/m <sup>3</sup>	

#### 8.2 Exposure controls

##### 8.2.1 Engineering measures

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

##### 8.2.2 Individual protection measures

Do not eat, drink or smoke during working periods. Thoroughly wash hands after working periods.

##### 8.2.2.1 Eye/face protection

Tightly fitting safety goggles.

##### 8.2.2.2 Skin protection

###### Hand protection

Glove material e.g. Nitrile rubber or Butyl rubber.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

###### Other protective equipment

Protective clothing.

##### 8.2.2.3 Respiratory protection

Not required.

#### 8.2.3 Environmental exposure controls

Do not empty into drains.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
Odour Threshold	not applicable
pH	No information available.
Melting point	0 °C
Boiling point	100 °C
Flash point	not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Relative density	1,0 g/cm <sup>3</sup> at 20 °C
Water solubility	soluble
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	not applicable
Decomposition temperature	No information available.

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Viscosity, dynamic  
Explosive properties  
Oxidizing properties

No information available.  
Not classified as explosive.  
none

### 9.2 Other data

No further information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

Contact with acids may liberate toxic gas.  
Potential formation of nitrogen oxides (NO<sub>x</sub>).

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Acids, heavy metals.

### 10.6 Hazardous decomposition products

Nitrogen oxides (see section 10.3).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture

#### Acute oral toxicity

Symptoms: headache, nausea, shock <sup>[1]</sup>

#### Acute inhalation toxicity

No information available.

#### Acute dermal toxicity

No information available.

#### Skin irritation

May cause skin irritation. May be harmful if absorbed through skin.

#### Eye irritation

May cause eye irritation.

#### Sensitisation

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

No information available.

#### Reproductive toxicity

No information available.

#### Teratogenicity

No information available.

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### Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

No information available.

### Aspiration hazard

No information available.

<sup>[1]</sup> Richardson et al. *J. Clin. Pathol.* **28** (1975), 350.

## 11.2 Further information

Quantitative data on the toxicity of this product are not available.

### Further data:

Handle in accordance with good industrial hygiene and safety practice.

### Components

Sodium Azide (solid substance):

#### Acute oral toxicity

LD50 rat: 27 mg/kg

#### Acute dermal toxicity

LD50 rabbit: 20 mg/kg

## SECTION 12: Ecological information

Mixture

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other adverse effects

### Additional ecological information

Discharge into the environment must be avoided.

### Components

Sodium Azide (solid substance):

#### Toxicity to fish

LC50 *Lepomis macrochirus*: 0,7 mg/l; 96 h

#### Toxicity to daphnia and other aquatic invertebrates

EC50 *Daphnia pulex*: 4,2 mg/l; 48 h

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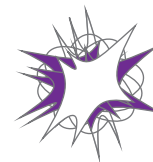
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### Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

### Bioaccumulation

Bioaccumulation is unlikely.

## SECTION 13: Disposal considerations

### Waste treatment methods

Residual product should be disposed in accordance to EC and national directives, e.g. 2008/98/EG.

## SECTION 14: Transport information

14.1	UN-number	Not applicable.
14.2	Proper shipping name	Not applicable.
14.3	Class	Not applicable.
14.4	Packing group	Not applicable.
14.5	Environmentally hazardous	Not applicable.
14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code	Not applicable.

## SECTION 15: Regulatory information

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

#### *EU regulations*

Major Accident Hazard Legislation 96/82/EC:

Directive 96/82/EC does not apply

Occupational restrictions:

Take note of Dir 94/33/EC on the protection of young people at work.

#### *National legislation*

None known.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

### Full text of H-Statements and R-phrases referred to under section 3.2:

R28	Very toxic if swallowed
R32	Contact with acids liberates very toxic gas
R36/37/38	Irritating to eyes, respiratory system and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H300	Fatal if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

