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

### 1.1 Product identifier

Brand name: SERION coupling kit N w/o beads
Product No.: CKN01
Kit components: A: SERION coupling reagent N01 (CRN01K)
B: SERION coupling reagent N02 (CRN02K)
C: SERION coupling reagent N03 (CRN03K)
D: SERION coupling reagent N04 (CRN04K)
E: SERION coupling reagent N05 (CRN05K)
F: SERION coupling reagent N06 (CRN06K)
G: SERION coupling reagent N07 (CRN07K)

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

For research or manufacturing use only. Not for use in *diagnostic procedures*.

### 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
Email info@virion-serion.de

### 1.4 Emergency telephone number

Manufacturer 0049 (0) 931 – 30 45 0 (Monday to Friday, 8:30 a.m. to 4:00 p.m.)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification per Regulation (EC) No. 1272/2008**
Not a hazardous substance or mixture according to EC Regulation No. 1272/2008.

### 2.2 Label elements

**Classification per Regulation (EC) No. 1272/2008**
The product does not need to be labelled in accordance with EC Directives or respective national laws.

H statements:
EUH208: Contains sensitizing substances. May produce an allergic reaction.
EUH210: Safety data sheet available on request.

### 2.3 Other hazards

This mixture does not meet the criteria to be classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

Not applicable.

### 3.2 Component A, E, F, G: Mixture

*ProClin 950 (0.1 %)*
EG no.: n.a.; CAS no.: n.a.
**Classification (Regulation (EC) No. 1272/2008):**
Toxic if inhaled, Category 3, H331
Harmful if swallowed, Category 4, H302
Causes severe skin burns and eye damage, Category 1C, H314
May cause an allergic skin reaction, Category 1B, H317
May cause respiratory irritation, Category 3, H335
Very toxic to aquatic life, Category 1, H400

**Component B, C, D: Mixture**

*Trade Secret (0.1 %)*
EG no.: n.a.; CAS no.: n.a.
**Classification (Regulation (EC) No. 1272/2008):**
Harmful if swallowed, Category 4, H302
Causes serious eye damage, Category 2, H319
May cause an allergic skin reaction, Category 1, H317
Toxic to aquatic life with long-lasting effects, Category 2, H411

*ProClin 950 (0.1 %)*
EG no.: n.a.; CAS no.: n.a.
**Classification (Regulation (EC) No. 1272/2008):**
Toxic if inhaled, Category 3, H331
Harmful if swallowed, Category 4, H302
Causes severe skin burns and eye damage, Category 1C, H314
May cause an allergic skin reaction, Category 1B, H317
May cause respiratory irritation, Category 3, H335
Very toxic to aquatic life, Category 1, H400

**Component H: Mixture**

*Natriumazide (0.09 %)*
EG no.: n.a.; CAS no.: 26628-22-8
**Classification (Regulation (EC) No. 1272/2008):**
Acute Tox. Category 2, H300
Aquatic Acute Category 1, H400
Aquatic Chronic Category 1, H410
EUH032: Contact with acids liberates very toxic gas.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

| | |
|---|---|
| General instructions: | In case of irregular breathing or respiratory arrest, apply artificial respiration. Consult a doctor immediately. |
| After inhalation: | Fresh air or administer oxygen. Consult a doctor if feeling unwell. |
| After skin contact: | Wash off with plenty of water. Remove contaminated clothing immediately. Consult a doctor if symptoms appear. |
| After eye contact: | Flush eyes with plenty of water and intermittently lift the upper and lower eyelids. Check for contact lenses and remove if present. Consult a doctor if irritation occurs. |
| After swallowing: | Rinse mouth and drink plenty of water. Do not induce vomiting. Consult a doctor if feeling unwell. |

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

No information available.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

| | |
|---|---|
| Suitable extinguishing media: | Use extinguishing measures appropriate to the environment. |
| Unsuitable extinguishing media: | There are no extinguishing agent restrictions for this substance/mixture. |

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

**Component H:** A fire in the nearby surroundings may generate hazardous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:
Self-contained breathing apparatus required when in the hazard area. 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 inhale vapours/aerosols. Avoid contact with substance. Ensure adequate ventilation. Evacuate the danger zone, follow the emergency plan and consult specialists.

#### 6.1.2 Advice for emergency responders

Protective equipment see section 8.

### 6.2 Environmental precautions

Do not allow discharge into the sewer system.

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

Remove containers from the discharge area. Avoid discharging into the sewer system, bodies of water, basements or closed areas. Take up material and put in appropriately labelled waste containers. Dispose of using an accredited waste disposal company. Clean.

### 6.4 Reference to other sections

Instructions for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### 7.1.1 Advice on safe handling
Avoid exposure.

#### 7.1.2 Hygiene measures
Change contaminated clothing immediately. Apply preventive skin protection. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities
**Requirements for storage areas and containers**
Store only in original container.

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

## SECTION 8: Exposure controls/personal protection/personal protective equipment

### 8.1 Control parameters
No components with workplace control parameters.

### 8.2 Exposure controls

#### 8.2.1 Engineering safety measures
Provide adequate ventilation.

#### 8.2.2 Individual protection measures
Do not eat, drink or smoke when working. Wash hands before breaks and after working. Use ointment for preventive skin protection.

#### 8.2.2.1 Eye/face protection
Safety goggles.

#### 8.2.2.2 Skin protection

**Hand protection**
Glove material, e. g. nitrile rubber or butyl rubber.
The protective gloves must conform to 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 necessary.

#### 8.2.3 Limiting and monitoring environmental exposure
No specific procedures required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

All components:

| | |
|---|---|
| Appearance | Shape: liquid.<br>Color: colorless. |
| Odour | Odourless. |
| Odour treshold | No information available. |
| pH | No information available. |
| Melting point | No information available. |
| Boiling point | No information available. |
| Flash point | No information available. |
| Evaporation rate | No information available. |
| Flammability (solid, gas) | No information available. |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Vapour pressure | No information available. |
| Relative vapour density | No information available. |
| Relative density | No information available. |
| Water solubility | No information available. |
| Partition coefficient: n- octanol/water | No information available. |
| Auto-ignition temperature | Not applicable. |
| Decomposition temperature | No information available. |
| Viscosity, dynamic | No information available. |
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |

### 9.2 Other information

No other relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is chemically stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

**Component H:** Contact with acids releases toxic gases.
The following can be generated: Nitrous gases.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

**Component H:** Acids, heavy metals.

### 10.6 Hazardous decomposition products

**Component H:** Nitrous gases, see section 10.3.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture

**Component A, E, F, G:**

**Acute oral toxicity**
*ProClin 950 (0.1 %)*, LD 50 (oral): 1962 mg/kg
Calculated estimate of the acute oral toxicity ATE (mix): 1962000 mg/kg

**Acute inhalation toxicity**
*ProClin 950 (0.1 %)*, LC 50 (inhalative): ATE 3 mg/L/4h
Calculated estimate of the acute inhalative toxicity ATE (mix): 500 mg/L/4h

**Acute dermal toxicity**
No information available.

**Skin irritation**
*ProClin 950 (0.1 %)* additive, Category 1C
SCL: Category 1C: 5% (general limit value) category 2: 10% (general limit value)
This component is classified as relevant.

**Eye irritation**
No information available.

**Sensitization of the skin**
*ProClin 950 (0.1 %)*, Category 1B
SCL: Category 1B: 1% (general limit value)
The mixture is not skin-sensitizing. Sensitive persons can still suffer from allergies.

**Germ cell mutagenicity**
No information available.

**Carcinogenicity**
No information available.

**Reproductive toxicity**
No information available.

**Teratogenicity**
No information available.

**Specific target organ toxicity – single exposure: Respiratory**
*ProClin 950 (0.1 %),* Category 3
SCL: Category 3: 20 % (general limit value)
The mixture is not classified in this category.

**Specific target organ toxicity – repeated exposure**
No information available.

**Aspiration hazard**
No information available.

Component B, C, D:

Acute oral toxicity
*Trade Secret (0.1 %),* LD 50 (oral): 500 mg/kg
*ProClin 950 (0.1 %),* LD 50 (oral): 1962 mg/kg
Calculated estimate of the acute oral toxicity ATE (mix): 398457 mg/kg

Acute inhalation toxicity
*ProClin 950 (0.1 %),* LC 50 (inhalative): ATE 3 mg/L/4h
Calculated estimate of the acute inhalative toxicity ATE (mix): 500 mg/L/4h

Acute dermal toxicity
No information available.

Skin irritation
*ProClin 950 (0.1 %)* additive, Category 1C
SCL: Category 1C: 5 % (general limit value) Category 2: 10 % (general limit value)
The component is classified as not relevant.

Eye irritation
*Trade Secret (0,1 %)* additive, Category 2
SCL: Category 2: 10 % (general limit value)
The component is classified as relevant.

Sensitization of the skin
*Trade Secret (0.1 %),* Category 1
SCL: Category 1: 1 % (general limit value)
*ProClin 950 (0.1 %),* Category 1B
Category 1B: 1 % (general limit value)
The mixture is not skin-sensitizing. Sensitive persons can still suffer from allergies.

Germ cell mutagenicity
No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

Teratogenicity
No information available.

Specific target organ toxicity - single exposure: Respiratory
*ProClin 950 (0.1 %),* Category 3
SCL: Category 3: 20 % (general limit value)
The mixture is not classified in this category.

Specific target organ toxicity - repeated exposure
No information available.

Aspiration hazard
No information available.

Component H:

Acute oral toxicity
There are no relevant ingredients in the mixture.
*Mixture*: Calculated estimate of the acute oral toxicity ATE (mix): 30000 mg/kg
The mixture is not classified in this category.

Acute inhalation toxicity
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Acute dermal toxicity
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Skin irritation
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Eye irritation
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Respiratory tract sensitization
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Skin sensitization
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Germ cell mutagenicity
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Carcinogenicity
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Reproductive toxicity
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Effect on lactation
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Teratogenicity
No information available.

Specific target organ toxicity – single exposure:
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Specific target organ toxicity – single exposure: Respiratory
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

Specific target organ toxicity – single exposure: Narcotic
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

**Specific target organ toxicity – repeated exposure**
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

**Aspiration hazard**
There are no relevant ingredients in the mixture.
The mixture is not classified in this category.

11.2 **Further information**
No information available.

## SECTION 12: Ecological information

Mixture

12.1 **Toxicity**
No information available.

12.2 **Persistence and degradability**
No information available.

12.3 **Bioaccumulative potential**
No information available.

12.4 **Mobility in soil**
No information available.

12.5 **Results of PBT- and vPvB-assessment**
There is no PBT/vPvB assessment available because no chemical safety assessment is required/was conducted.

12.6 **Other adverse effects**

**Component B, C, D:**
**Chronic water hazard**
*Trade Secret (0.1 %),* Category 2, $LC_{50}$(fish): 7.2 mg/L, $EC_{50}$(crustaceans): 8,84 mg/L
The mixture is not classified in this category.

**All components:**
**Additional ecological information**
Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

**Waste treatment methods**
Dispose of leftover product in accordance with Directive 2008/98/EC on waste and national and regional regulations. Do not mix with other waste. Treat uncleaned containers depending on the product.

## SECTION 14: Transport information

| | | |
|---|---|---|
| 14.1 | UN number | Not classified as dangerous goods as per regulations ADR/RID (land transport), IATA (air transport) and IMDG (marine transport) |
| 14.2 | Proper UN shipping name | Not applicable. |
| 14.3 | Transport hazard class | Not applicable. |
| 14.4 | Packing group | Not applicable. |
| 14.5 | Environmentally hazardous | None. |
| 14.6 | Special precautions for user | None. |
| 14.7 | Transport in bulk according to Annex II of MARPOL Convention 73/78 and the IBC-Code | Not relevant. |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| EC legislation | None known. |
| National legislation | None known. |

15.2 Chemical safety assessment

A chemical safety assessment has not been conducted for this product.

## SECTION 16: Other information

The information contained herein describes the product with reference to the applicable safety precautions. It is not an assurance of the properties of the product.