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

1.1 Product identifier

Brand name: SERION coupling reagent N02
Product No.: CRN02 / CRN02K

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 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

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

No information available.

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

Appearance	Shape: liquid. 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
No information available.

10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
No information available.

10.6 Hazardous decomposition products
No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Mixture

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.

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**

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.

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.