IBL-America ELISA

Product identifier
Product Name: ELISA Immunoassay IgA / IgG / IgM
Product No.: IB05xxx

Composition
Test Components

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Article Name</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP xxxx A/G/M</td>
<td>Break apart microtiter test strips each with eight antigen coated single wells, 12 pieces</td>
<td>MTP</td>
</tr>
<tr>
<td>B xxxx P A/G/M F</td>
<td>Standard serum (ready-to-use), 2 x 2 ml</td>
<td>STD</td>
</tr>
<tr>
<td>or</td>
<td>B xxxx P A/G/M F</td>
<td>Positive control serum (ready-to-use), 2 ml</td>
</tr>
<tr>
<td>B xxxx C A/G/M F</td>
<td>Cut off serum (ready-to-use), 2 x 2 ml</td>
<td>C/O</td>
</tr>
<tr>
<td>B xxxx N A/G/M F</td>
<td>Negative control serum (ready-to-use), 2 ml</td>
<td>NEG</td>
</tr>
<tr>
<td>KIG A/G/M R</td>
<td>Anti-human IgA, IgG or IgM conjugate (ready-to-use), 13 ml</td>
<td>APC</td>
</tr>
<tr>
<td>B232</td>
<td>Washing solution concentrate (sufficient for 1000 ml), 33.3 ml</td>
<td>WASH</td>
</tr>
<tr>
<td>B231 (-S1/ -S2 / -S3)</td>
<td>Dilution buffer, 2 x 50 ml</td>
<td>DILB (S1 / S2 / S3)</td>
</tr>
<tr>
<td>B235</td>
<td>Stopping solution, 15 ml</td>
<td>STOP</td>
</tr>
<tr>
<td>B236</td>
<td>Substrate (ready-to-use), 13 ml</td>
<td>pNPP</td>
</tr>
<tr>
<td></td>
<td>Quality control certificate with standard curve and evaluation table</td>
<td>INFO</td>
</tr>
</tbody>
</table>

Attachment

Safety data sheets for test components
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   Product name: Breakable pre-coated microtiter strips with 8 individual wells
   Product No.: AP xxxx, BP xxxx A/G/M
   Abbreviation: MTP

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: *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

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
   This product is not classified as dangerous according to Directives 67/548/EEC and 1999/45/EC and Regulation 1272/2008/EC.

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 feeling unwell.
   After eye contact: After initial flushing, remove any contact lenses and continue flushing. Continue irrigation until medical attention can be obtained.
After swallowing: Do not induce vomiting. Provided the victim is conscious, wash out mouth with water and give water to drink.

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 an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media
None known.

5.2 Special hazards arising from the substance or measure
Not combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Special protective equipment for firefighters
In the event of fire, wear self-contained breathing apparatus. Avoid skin contact. Wear 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. Evacuate the danger area, follow emergency procedures, consult an expert.

6.1.2 Advice for emergency responders
Protective equipment see section 8.

6.2 Environmental precautions
No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up
Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor.

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
Put on appropriate personal protective equipment (see section 8).

7.1.2 Hygiene measures
Remove contaminated clothing. Wash hands and face at the end of the working period.
7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions:**
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.
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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Not indicated.

8.2 Exposure controls

8.2.1 Engineering measures
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual protection measures
Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

8.2.2.1 Eye/face protection
Safety glasses.

8.2.2.2 Skin protection

Hand protection
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 indicated.

8.2.3 Environmental exposure controls
No special precautionary measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>solid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Treshold</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
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              No information available.
Decomposition temperature              No information available.
Viscosity, dynamic                     No information available.
Explosive properties                   Not classified as explosive.
Oxidizing properties                   none

9.2 Other data
No additional information.

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 (i.e. room temperature).

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
No information available.

Acute inhalation toxicity
No information available.

Acute dermal toxicity
No information available.

Skin irritation
No information available.

Eye irritation
No information available.

Sensitization
No information available.
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
No information available.

Specific target organ toxicity – repeated exposure
No information available.

Aspiration hazard
No information available.

11.2 Further information
Quantitative data on the toxicity of this product are not 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
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects
Additional ecological information
No information available.

SECTION 13: Disposal considerations

Waste treatment methods
Residual product should be disposed in accordance to EC and national directives, e.g. 2008/98/EG. Do not decant residual product and/or mix with other waste.
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
EC legislation None known.
National legislation None known.

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

SECTION 16: Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name: Control sera and SERION ELISA control
Product No: B xxxx P A/G/M F; B xxxx N A/G/M F; B xxxx C A/G/M F
BC xxxx A/G/M; C xxxx A/G/M
Abbreviation: [STD, NEG, POS, C/O] SERION ELISA control

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

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 contains material of human origin; potentially infectious.
This product is not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substance
Not applicable.

3.2 Mixture
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
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. Use skin disinfectant. Consult physician.
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 (two glasses at most). 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

No information available.

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


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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
SODIUM AZIDE
AGW (Germany) 0,2 mg/m³ 2(I); DFG, EU
IOELV (EC) Short term: 0,3 mg/m³
Long term: 0,1 mg/m³
Skin

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. Use of preventive skin care measures is recommended.

8.2.3 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 Treshold        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/cm³ at 20 °C
Water solubility      soluble
Partition coefficient: n- octanol/water Not information available.
Auto-ignition temperature not applicable
Decomposition temperature No information available.
Viscosity, dynamic    No information available.
Explosive properties  Not classified as explosive.
Oxidizing properties  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 (NOx).

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 \[^{[1]}\]

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.

Specific target organ toxicity - single exposure
No information available.

Specific target organ toxicity - repeated exposure
No information available.

Aspiration hazard
No information available.


11.2 Further information

Quantitative data on the toxicity of this product are not available. This product contains human sourced materials. Although tested negative for anti-HIV antibodies, HBs-Ag (Hepatitis B-Virus-surface antigen) and anti-HCV antibodies, this product should be treated as being potentially infectious.

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

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
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
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
H300 Fatal if swallowed
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

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

1.1 Product identifier

Product name: Wash solution SERION ELISA classic, Dilution buffer SERION ELISA classic
Product No: B232, B231, B231-S1, B231-S2, B231-S3
Abbreviation: WASH, DILB, DILBS1, DILBS2, DILBS3

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

Identified uses: 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

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

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
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 (two glasses at most). 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
No information available.

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

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| SODIUM AZIDE | AGW (Germany) | 0.2 mg/m³ | 2(l);DFG, EU |
| IOELV (EC) | Short term: 0.3 mg/m³ |
| Long term: 0.1 mg/m³ |

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/cm³ at 20 °C
Water solubility: soluble
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: Not classified as explosive.
Oxidizing properties: 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 (NOx).

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 \(^{[1]}\)

**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.

**Specific target organ toxicity - single exposure**
No information available.

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

**Aspiration hazard**
No information available.


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

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

H300  Fatal if swallowed
H400  Very toxic to aquatic life
H410  Very toxic to aquatic life with long lasting effects

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

1.1 Product identifier
Product name: Conjugate solution
Product No: KIG A/G/M R +/++/+++  
Abbreviation: APC

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

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
SODIUM AZIDE
EC-No: 247-852-1; EINECS Annex l: 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
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 (two glasses at most). 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
No information available.

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

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
SODIUM AZIDE
AGW (Germany) 0,2 mg/m³ 2(I); DFG, EU
IOELV (EC) Short term: 0,3 mg/m³
Long term: 0,1 mg/m³ Skin

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
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<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
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<td>Odour Treshold</td>
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<td>pH</td>
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<td>Melting point</td>
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<td>Boiling point</td>
<td>100°C</td>
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<td>Flash point</td>
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<td>Evaporation rate</td>
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<td>Flammability (solid, gas)</td>
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<td>Lower explosion limit</td>
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</tr>
<tr>
<td>Upper explosion limit</td>
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<td>Vapour pressure</td>
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<td>Relative vapour density</td>
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<td>Relative density</td>
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<td>Water solubility</td>
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<td>Auto-ignition temperature</td>
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<td>Decomposition temperature</td>
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<td>Viscosity, dynamic</td>
<td>No information available.</td>
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<td>Explosive properties</td>
<td>Not classified as explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>

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 (NOx).

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 [1]

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.

Specific target organ toxicity - single exposure
No information available.

Specific target organ toxicity - repeated exposure
No information available.

Aspiration hazard
No information available.


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

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

H300 Fatal if swallowed
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

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

1.1 Product identifier
Product name: Substrate solution
Product No: B236
Abbreviation: pNPP

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

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
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
TRIS(HYDROXYMETHYL)AMINOMETHANE
EC-No: 201-064-4     CAS-No. 77-86-1
Concentration: 6 % w/w

Classification (67/548/EEC or 1999/45/EC):
Xi; R36/38

Classification (Regulation (EC) No. 1272/2008):
Acute Eye Irrit. 2;H319 • Skin Irrit. 2;H315

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 (two glasses at most). Immediately consult physician.

4.2 Most important symptoms and effects, both acute and delayed
Unconsciousness, dizziness, headache, nausea, vomiting, CNS symptoms. Irritation of respiratory tract, eyes, skin and digestive tract.

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 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

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
SODIUM AZIDE
AGW (Germany) 0,2 mg/m³ 2(I); DFG, EU
IOELV (EC) Short term: 0,3 mg/m³
Long term: 0,1 mg/m³
Skin

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 Treshold 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/cm³ at 20 °C
Water solubility soluble
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 Not classified as explosive.
Oxidizing properties 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 (NOx).

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 \[1\]

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.

Specific target organ toxicity - single exposure
No information available.

Specific target organ toxicity - repeated exposure
No information available.

Aspiration hazard
No information available.


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
Tris(hydroxymethyl)aminomethane

**Acute oral toxicity**
LD50 rat: 5900 mg/kg (RTECS)

### 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

**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

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
R36/38 Irritating to eyes 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
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

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

1.1 Product identifier
Product name: Stoplösung
Product No.: B235
Abbreviation: STOP

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

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
Sodium Hydroxide
Concentration: < 0,5 % w/w

Classification (Regulation (EC) No. 1272/2008): C ; R 35
Classification (67/548/EEC or 1999/45/EC):
Skin. Corr. 1A; H314
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 feeling unwell.
After eye contact: After initial flushing, remove any contact lenses and continue flushing. Continue irrigation until medical attention can be obtained.
After swallowing: Do not induce vomiting. Provided the victim is conscious, wash out mouth with water and give water to drink. Consult physician 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 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. Ambient fire may liberate hazardous vapours.

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
No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up
Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor.

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 accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Not indicated.

8.2 Exposure controls

8.2.1 Engineering measures
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See Section 7.1.

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
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 indicated.

8.2.3 Environmental exposure controls
No special precautionary measures necessary.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>ca. 13.7 at 20 °C</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative vapour density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.04 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not classified as explosive.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>none</td>
</tr>
</tbody>
</table>

9.2 Other data

Corrosion: May be corrosive to metals.

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

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
No information available.

Acute inhalation toxicity
No information available.

**Acute dermal toxicity**
No information available.

**Skin irritation**
No information available.

**Eye irritation**
No information available.

**Sensitisation**
No information available.

**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**
No information available.

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

**Aspiration hazard**
No information available.

11.2 **Further information**
Quantitative data on the toxicity of this product are not 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**
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 **Other adverse effects**
Additional ecological information
No information available.
SECTION 13: Disposal considerations

Waste treatment methods
Residual product should be disposed in accordance to EC and national directives, e.g. 2008/98/EG. Do not decant residual product and/or mix with other waste.

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

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

SECTION 16: Other information

Full text of H-statements referred to under sections 2 and 3.
H314 Causes severe skin burns and eye damage.

Full text of R-phrases referred to under sections 2 and 3
R35 Causes severe burns.

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.

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