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

1.1. Product identifier

Substance P (6-11)

CAS No: 51165-07-2

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

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company name: Bachem (UK) Ltd.
Delph Court
Sullivans Way, St. Helens
GB Merseyside WA9 5GL
Telephone: +44 1744 61 2108
Telex: +44 1744 73 0064
e-mail (Contact person): msds@bachem.com
Responsible Department: Global Marketing

1.4. Emergency telephone number:

+41 44 251 51 51 (Tox Info Suisse)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Hazard components for labelling

- 

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: C36H52N8O7S

Molecular weight: 740.93

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

After contact with skin

Rinse cautiously with water for several minutes. If medical advice is needed, have product container or label at hand.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After ingestion
IF SWALLOWED: rinse mouth. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention if you feel 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
Dry extinguishing powder

Unsuitable extinguishing media
No information available.

5.2. Special hazards arising from the substance or mixture
Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Sulphur dioxide (SO2)

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Remove persons to safety.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up
Collect spillage. Avoid dust formation.

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Keep container tightly closed and dry.

Advice on protection against fire and explosion
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling
No information available.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Store in a dry place. Store in a closed container.

Hints on joint storage
Do not store together with:
Food and feedingstuffs
Further information on storage conditions
- Protect against:
  - Heat
  - Humidity

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values
- To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls
- Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures
- Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink or smoke.

Eye/face protection
- Suitable eye protection:
  - Eye glasses with side protection
  - Goggles

Hand protection
- Wear protective gloves.
  - Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)
  - The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection
- If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn:
  - Self-contained respirator (breathing apparatus) (DIN EN 133)
  - Combination filtering device (EN 14387)

Environmental exposure controls
- Avoid release to the environment.

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>Physical state</td>
<td>solid</td>
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<td>Colour</td>
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<td>Odour</td>
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<tr>
<td>Odour threshold</td>
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<tr>
<td>pH-Value</td>
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<tr>
<td>Changes in the physical state</td>
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<tr>
<td>Melting point</td>
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<tr>
<td>Initial boiling point and boiling range</td>
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<tr>
<td>Sublimation point</td>
<td>No data available</td>
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</table>
### Substance P (6-11)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening point</td>
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<tr>
<td>Pour point</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Sustaining combustion</td>
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<tr>
<td><strong>Explosive properties</strong></td>
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<td>Lower explosion limits</td>
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<tr>
<td>Upper explosion limits</td>
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<td>Ignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<td><strong>Oxidizing properties</strong></td>
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<td>Vapour pressure</td>
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<td>Density</td>
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<td>Bulk density</td>
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<td>Water solubility (at 25 °C)</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Viscosity / dynamic</td>
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<tr>
<td>Viscosity / kinematic</td>
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<tr>
<td>Vapour density</td>
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<td>Evaporation rate</td>
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<tr>
<td>Solvent content</td>
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</tr>
</tbody>
</table>

### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

No data available
Acute toxicity
   Based on available data, the classification criteria are not met.

Irritation and corrosivity
   Based on available data, the classification criteria are not met.

Sensitising effects
   Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
   Based on available data, the classification criteria are not met.

STOT-single exposure
   Based on available data, the classification criteria are not met.

STOT-repeated exposure
   Based on available data, the classification criteria are not met.

Aspiration hazard
   Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity
   The product has not been tested.

12.2. Persistence and degradability
   The product has not been tested.

12.3. Bioaccumulative potential
   The product has not been tested.

12.4. Mobility in soil
   The product has not been tested.

12.5. Results of PBT and vPvB assessment
   The product has not been tested.

12.6. Other adverse effects
   No information available.

Further information
   Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
   Disposal recommendations
      Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

   Contaminated packaging
      Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)
  14.1. UN number: No dangerous good in sense of this transport regulation.
  14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
  14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
  14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
  14.1. UN number: No dangerous good in sense of this transport regulation.
### 14. UN proper shipping name:
No dangerous good in sense of this transport regulation.

### 14. Transport hazard class(es):
No dangerous good in sense of this transport regulation.

### 14.4. Packing group:
No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

**14.1. UN number:**
No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**
No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**
No dangerous good in sense of this transport regulation.

**14.4. Packing group:**
No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:**
No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**
No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**
No dangerous good in sense of this transport regulation.

**14.4. Packing group:**
No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

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**SECTION 15: Regulatory information**

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

**National regulatory information**

For this substance a chemical safety assessment has not been carried out.

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**SECTION 16: Other information**

**Abbreviations and acronyms**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures
- ATE: Acute toxic estimate
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- EC50: Effect concentration, 50 percent
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.