

SAFETY DATA SHEET

N° 0601 – Version 2025/04

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

<u>Part code</u>	<u>Trade name</u>	<u>Packaging</u>
61010216	pNAPEP-0216	25 mg
61010238	pNAPEP-0238	25 mg
61011022	pNAPEP-1022	25 mg
61011032	pNAPEP-1032	25 mg
61011065	pNAPEP-1065	25 mg
61011266	pNAPEP-1266	25 mg
61011344	pNAPEP-1344	25 mg
61011566	pNAPEP-1566	25 mg
61011566-50	pNAPEP-1566	50 mg
61011588	pNAPEP-1588	25 mg
61011703	pNAPEP-1703	25 mg
6101-1751	pNAPEP-1751	25 mg
61011902	pNAPEP-1902	25 mg
61030779	pNAPEP-0779	25 mg
61030968	pNAPEP-0968	25 mg
61031025	pNAPEP-1025	25 mg
61038109	pNAPEP-8109	25 mg
61038111	pNAPEP-8111	25 mg
61038111-6	pNAPEP-8111-6	10 µmol
61038117	pNAPEP-8117	100 mg
61038305	pNAPEP-8305	25 mg
61038401	pNAPEP-8401	25 mg
61038503	pNAPEP-8503	25 mg
61038506	pNAPEP-8506	25 mg
61038703	pNAPEP-8703	25 mg
61038731	pNAPEP-8731	10 µmol
61038902	pNAPEP-8902	25 mg
61039035	pNAPEP-9035	25 mg
61039041	pNAPEP-9041	1 g
61039101	pNAPEP-9101	25 mg
61039502	pNAPEP-9502	100 mg
61039502-25	pNAPEP-9502	25 mg

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

Recommended use : Laboratory reagents
Use advised against : For professional use only

1.3. Company identification



Cryopep
83 rue Yves Montand
34080 Montpellier, France
Tel : 04 67 10 71 20
Fax : 04 67 10 71 21
contact@cryopep.com

1.4. Emergency phone

NVIC (NL) : Tel. : 030 274 88 88
ANTIGIFCENTRUM (B) : Tel. : 070 245 245

2. HAZARDS IDENTIFICATION

2.1. Product classification

No hazardous product according to 1907/2006/EC and 1272/2008/EC

2.2. Labelling Elements

None

2.3. Other hazards


All chemicals are potentially dangerous. They are therefore only to be handled by specially trained personnel with the necessary care.

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3. COMPONENT / INFORMATIONS ON INGREDIENTS

Chromogenic peptide labelled with paranitroanilin (pNA)

Name	Identification	Concentration	Classification acc. to 1272/2008/EC	Pictogramm	Specific Concentration Limits
Para-nitroanilin (pNA)	100-01-6 EC : 202-810-1 Index : 612-012-00-09	< 0.5 %	Acute Tox. Cat. 3 (H301, H311, H331) STOT RE Cat. 2 (H373) Aquatic Chronic Cat. 3 (H412)		

Le texte complet des phrases H est décrit au § 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Remove all soiled clothing.

Leave the danger zone.

Symptoms may be delayed. As a general rule, if in doubt or if symptoms persist, always call a doctor to whom you show this safety data sheet.

NEVER induce swallowing in an unconscious person.

Inhalation : Move person to fresh air. In case of shortness of breath, give oxygen. Get medical advice.

Skin contact : Wash skin with plenty water and soap. Get a medical advice if redness develops.

Eye contact : Rinse immediately with plenty of water. Keep eyelid open with fingers while rinsing. Check for and remove any contact lenses. Get medical attention.

Ingestion : Rinse mouth with plenty of water provided person is conscious. Upon ingestion, drink large quantities of water. Get immediatly a medical advice.

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

Toxic symptoms and effects are not known

4.3. Indication of any immediate attention and special treatment needed

Monitoring or antidotes not known.

5. FIRE FIGHTING MEASURES

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire

Unsuitable extinguishing media : No data

5.2. Special hazards arising from the product

Not flammable. Not explosive.

5.3. Fire fighting instructions

Water jets can be used successfully to cool containers exposed to the fire and disperse fumes.

Wear an independent respirator and protective clothing to fire fighting with chemical or biological products.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear a lab coat, disposable gloves and safety glasses.

Wash immediately contaminated clothing.

6.2. Environment precautions

Do not discharge into the environment.

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Ventilate the room.

Sweep or vaccum product.

Place contaminated materials in an approved container for proper disposal, in accordance with local regulations.

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6.4. Reference to other sections

See sections 7, 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handle in a ventilated room, away from flames, sparks and water drains.
Wear personal protective equipment (lab coat, protective gloves, safety glasses, cf § 8.).
Avoid eye and skin contact.
Do not inhale.
Do not eat, drink or smoke in the work areas.
Wash hands with soap and water or any suitable product after handling.
Remove potentially-contaminated lab coats before enter in refreshment area.

7.2. Conditions for safe storage, including any incompatibilities

Store product in tightly closed vial to avoid accidental leakage or spreading at temperature indicated on the certificate of analysis, the vial or the kit.
Avoid releases into the environment.
Keep away from food and drinks.

7.3. Specific End Uses

Use in labs.
Use the product in accordance with good laboratory practice (GLP).

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Exposure parameters

8.1.1. Exposure limit

Product as shipped do not contain hazardous materials of which occupational exposure limits have not been made by the local specific regulatory organization.

8.1.2. Biological limit values

Product as shipped do not contain hazardous materials of which biological limit values have not been made by the local specific regulatory organization.

8.1.3. Monitoring method

No data available

8.1.4. Derived no-effect level (DNEL)

No data available

8.1.5. Predicted no-effect concentration (PNEC)

No data available

8.2. Exposure controls

8.2.1. Technical measures

Appropriate risk management measures must be selected, adopted and applied in the workplace, after the risk assessment carried out by the employer, in relation to his professional activity. If the results of this assessment show that general and collective preventive measures are not sufficient to reduce the risk and that exposure to the mixture cannot be prevented by other measures, appropriate personal protective equipment should be used. implemented in accordance with national and international technical standards.

8.2.2. Individual protection measures, such as personal protective equipment.

Eye / face protection

Chemical safety glasses (European standard EN166)

Hand protection

Protective gloves (European standard EN 374)

- *Inspect gloves before use.*
- *Respect permeability and penetration time instructions through gloves defined by the manufacturer*
- *Use gloves appropriate for work or task being performed (chemical compatibility, dexterity, experimental conditions, ...).*
- *Take account of regional and local conditions of use.*
- *Be careful when remove gloves to avoid self-contamination.*

Skin and body protection

Wear suitable protective clothing and gloves to prevent skin exposure.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation. The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

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8.2.3. Health safety

Handle in accordance with good laboratory hygiene

8.2.4. Environmental exposure controls

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance :</u>	White to primrose yellow lyophilized powder
<u>Odor :</u>	Odourless
<u>Odor threshold :</u>	Not applicable
<u>pH (between 20 and 25°C) :</u>	1 - 7
<u>Melting point :</u>	Not determined
<u>Boiling point :</u>	Not determined
<u>Boiling ranges :</u>	Not determined
<u>Flash point :</u>	Not determined
<u>Evaporation rate :</u>	< 2 % in water
<u>Flammability (solid, gaz) :</u>	None
<u>Explosion limit :</u>	None
<u>Vapor pressure :</u>	Not determined
<u>Vapor density :</u>	Not determined
<u>Specific gravity :</u>	Not determined
<u>Solubility :</u>	Full in water
<u>Partition coefficient :</u>	Not determined
<u>Self ignition :</u>	Not flammable
<u>Decomposition temperature :</u>	Not determined
<u>Viscosity :</u>	Not applicable
<u>Explosive properties :</u>	No explosion hazard
<u>Oxidising properties :</u>	Not determined

9.2. Other informations

None

10. STABILITY AND REACTIVITY

10.1. Reactivity

Chemically stable under recommended conditions of storage, handling and use.

10.2. Chemical stability

Chemically stable under recommended conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Hazardous polymerisation : None

Hazardous reactions : Thermic reaction : formation of carbon oxides and nitrogen oxides

10.4. Conditions to avoid

High temperature

10.5. Incompatible materials

Strong oxidizers, strong acids, strong bases

10.6. Hazardous decomposition products

None known

11. TOXICOLOGICAL INFORMATIONS

11.1. Informations on toxicological effects

11.1.1. Acute toxicity

No data

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11.1.2. Skin corrosion / irritation

No data

11.1.3. Serious eye damage

May cause allergic reactions in certain sensitive individuals.

11.1.4. Respiratory sensitisation

May cause allergic reactions, headache, breathing problems, nausea, vomiting, weakness, cyanosis, coma in susceptible individuals

11.1.5. Skin sensitisation

May cause allergic reactions in certain sensitive individuals.

11.1.6. Germ cell mutagenicity

pNA is chemically bound to peptide but he is cleaving by proteolytic enzymes like trypsin during digestion.

LD₅₀ (rat, po) : 750 mg/kg

LD₅₀ (rat, iv) : ~ 100 mg/kg

TLV-TWA : 3.0 mg/m³

11.1.7. Carcinogenicity

No data

11.1.8. Reproductive toxicity

No data

11.1.9. Specific target organ toxicity (single exposure)

No data

11.1.10. Specific target organ toxicity (repeated exposure)

No data

11.1.11. Aspiration hazard

No data

11.1.12. Other adverse effects

The above health effects are based on extrapolation of data for pure product substances. No effect was reported under normal conditions of use, ie, as a mixture of these compounds. However, these effects have not been fully investigated.

Where a mixture resulted in a non-classification, this may be due to the availability of data which does not impose a classification for that specific end-point, or due to lack of data or due to availability of inconclusive data or data which are not sufficient to get a classification as for the criteria adopted in regulations mentioned in this data sheet.

11.1.13. Symptoms and effects, both acute and delayed

No data

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data

12.2. Persistence and degradability

Product miscible with water, rapidly degradable and biodegradable.

12.3. Bioaccumulative potential

None known

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment

No data

12.6. Other adverse effects

No data

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

The product must be disposed of as laboratory chemical in suitable containers and in accordance with local regulations. Do not evacuate to the sewer.

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13.2. Waste from residues / unused products

The product must be disposed of as laboratory chemical in suitable containers and in accordance with local regulations. Do not evacuate to the sewer.

13.3. Contaminated packaging

Packaging should be disposed in suitable containers in accordance with local regulations.

14. TRANSPORT INFORMATION (INTERNATIONAL REGULATIONS)

14.1. Sea transport (IMDG / IMO)

Not applicable

14.2. Land transport (ADR)

Not applicable

14.3. Air transport (IATA)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No special precautions known

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

Not applicable

15. REGULATORY INFORMATION

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

The contained information in this MSDS is in accordance with Annex II of regulation no. 1907/2006 (REACH) and in accordance with ANSI "Standard for hazardous Industrial Chemicals – Material Safety Sheets - Preparation" (ANSI Z400.1-2004) as recommended by US OSHA.

The product/components are not subject to regulation 93/21/EEC about transport and labelling dangerous substances.

15.2. Chemical safety assessment

Chemical safety assessment for this product/mixture is not necessary according to EC 1907/2016 article 14 paragraph 2.

16. OTHER INFORMATION

This sheet supplements the technical instructions for use, but does not replace them. The information it contains is based on the current state of scientific and technical knowledge relating to the product concerned, as of the date indicated on this document. They are given in good faith. The manufacturer and the distributor cannot be held responsible for any defect in a product covered by this safety data sheet if the existence of such a defect was not detectable in view of the current state of scientific knowledge and techniques. It characterizes the product with regard to the appropriate security measures. It does not represent any guarantee of the properties of the product. In addition, we draw the user's attention to the possible risks incurred when a product is used for purposes other than those for which it was designed. The user must accept that he is solely responsible in this matter and take the necessary precautions for the use of this product.

Full text of hazard statements

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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Revision

Version	Date	Modifications
2012/05	02/05/2012	Creation
2014/03	27/03/2014	Global update by the manufacturer
2014/07	28/07/2014	Revising the presentation, introduction of new graphic of the company, adding details in the whole text, adding R and S risk phrases
2016/02	29/02/2016	Adding product : 61039502
2016/11	04/11/2016	Adding product : 61038117
2017/02	02/02/2017	Adding products : 61038703, 61038731
2017/04	25/04/2017	Adding product : 61039101
2018/04	25/04/2018	Adding product : 61039202
2019/03	11/03/2019	Adding product : 61039040
2021/10	01/10/2021	Adding product : 61011566-50, updating § 2.3, 3, 9.1, 10.3, 13, 15, 16
2022/01	19/01/2022	Adding product : 61038503, removal of products : 61011066, 61039040, 61039202, 61050220
2023/04	18/04/2023	Adding products : 61038109, 61038111, 61038305, 61038401, 61038506, 61038902, 61039035, 61039041, remove product : 61030234
2025/04	22/04/2025	Adding product : 61038109, 61038111-6