

# SAFETY DATA SHEET

Prepared in accordance with the requirements of Annex II to Regulation (EC) No 1907/2006 (REACH)

|                     |            |
|---------------------|------------|
| Date of preparation | 2025-12-06 |
| Revision date       | 2025-12-06 |
| Trade name          | BPC-157    |

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

### 1.1 Product identifier

|                     |                              |
|---------------------|------------------------------|
| Trade name          | BPC-157                      |
| Chemical name       | Body Protection Compound-157 |
| CAS No.             | 137525-51-0                  |
| Registration number | Not provided.                |

A REACH registration number has not yet been assigned to this substance, or the substance is manufactured/imported in quantities for which registration under the REACH Regulation is not required.

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

#### Sector of use

SU24 - Scientific research and development.

#### Use of the substance/mixture

Raw material intended for scientific research and experimental development.

(Further information is provided on the product label or in the technical data sheet.)

#### Uses advised against

All uses other than those specified above.

### 1.3 Details of the supplier of the safety data sheet

|                         |                                         |
|-------------------------|-----------------------------------------|
| Manufacturer / Supplier | UAB Advauto                             |
| Company code            | 306980920                               |
| VAT No.                 | LT100019954810                          |
| Address                 | Giedraičių g. 39, R53, LT-09302 Vilnius |
| Email                   | dovydasvoinickis@gmail.com              |

### 1.4 Emergency telephone number

Lithuanian Poison Information Centre: +370 5 236 2052

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

The substance is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP).

#### Additional information

Although the product is not classified as hazardous, it may present hazards under certain conditions. Further information is provided in Sections 9-12 of this safety data sheet.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| <b>Hazard pictograms</b>            | Not applicable.                                  |
| <b>Signal word</b>                  | Not applicable.                                  |
| <b>Hazard statements (H)</b>        | Not applicable.                                  |
| <b>Precautionary statements (P)</b> | Not applicable.                                  |
| <b>Supplemental information</b>     | EUH210 - Safety data sheet available on request. |

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

##### PBT

Based on the available information, the product does not meet the criteria for a PBT (persistent, bioaccumulative and toxic) substance, either as a pure substance or as a component of a mixture at a concentration of  $\geq 0.1$  % by weight.

##### vPvB

Based on the available information, the product does not meet the criteria for a vPvB (very persistent and very bioaccumulative) substance, either as a pure substance or as a component of a mixture at a concentration of  $\geq 0.1$  % by weight.

#### Endocrine-disrupting properties

Based on the available information, the product does not meet the criteria for endocrine-disrupting properties, either as a pure substance or as a component of a mixture at a concentration of  $\geq 0.1$  % by weight.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                       |                              |
|-----------------------|------------------------------|
| <b>CAS No.</b>        | 137525-51-0                  |
| <b>Substance name</b> | Body Protection Compound-157 |

#### Additional information

Amino acid sequence (peptide structure):

H-Gly-Glu-Pro-Pro-Pro-Gly-Lys-Pro-Ala-Asp-Asp-Ala-Gly-Leu-Val-OH

## SECTION 4: First aid measures

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### 4.1 Description of first aid measures

#### General information

Immediately remove contaminated clothing and footwear (use appropriate personal protective equipment; see Section 8). If in doubt or if any symptoms occur, seek medical advice and present this safety data sheet or the product label. Protect the health and safety of the affected person.

Information for the physician: Treat symptomatically.

#### Following inhalation

Move the affected person to fresh air. If symptoms occur, seek medical advice.

#### Following skin contact

Wash the skin thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if necessary.

#### Following eye contact

Immediately rinse the eyes thoroughly with plenty of water, including beneath the eyelids, for at least 15 minutes. Seek medical advice if necessary.

#### Following ingestion

If accidentally swallowed, rinse the mouth thoroughly and give plenty of water to drink. Do not induce vomiting. Seek medical attention immediately.

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

No further relevant information is available.

Additional information is provided in Sections 2 and 11.

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

No further relevant information is available.

## SECTION 5: Firefighting measures

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### 5.1 Extinguishing media

#### Suitable extinguishing media

- Carbon dioxide (CO<sub>2</sub>).
- Dry chemical powder.
- Alcohol-resistant foam (in the event of a large fire).

Cool containers exposed to fire with water spray. Use firefighting measures appropriate to the surrounding materials.

#### Unsuitable extinguishing media

Not determined.

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

Heating the product or exposure to fire may generate hazardous decomposition products and toxic gases, including:

- carbon dioxide (CO<sub>2</sub>);
- carbon monoxide (CO);
- nitrogen oxides (NO<sub>x</sub>).

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Do not enter the hazardous area without self-contained breathing apparatus. Wear chemical-resistant protective clothing and appropriate personal protective equipment.

#### Additional information

Cool containers from a safe distance using water spray. Suppress released vapours with water mist. Prevent firefighting water from entering surface waters, groundwater or the sewer system.

## SECTION 6: Accidental release measures

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### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

- Do not breathe dust.
- Ensure adequate ventilation in enclosed areas.
- Avoid contact with eyes and skin.

#### 6.1.2 For emergency responders

Additional information is provided in Section 5.

### 6.2 Environmental precautions

Prevent the product from entering sewer systems, surface waters or groundwater.

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

Collect spilled product mechanically and place it in suitable waste collection containers.

Handle waste in accordance with the requirements of Section 13. Use the personal protective equipment specified in Section 8.

Thoroughly clean the contaminated area and used work equipment with a suitable cleaning agent. Do not use solvents.

### 6.4 Reference to other sections

For information on safe handling, see Section 7.

For information on personal protective equipment, see Section 8.

For information on waste disposal, see Section 13.

## SECTION 7: Handling and storage

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### 7.1 Precautions for safe handling

Before using the product, review the information provided in Sections 2, 6, 8 and 11.

Do not breathe aerosols or dust.

Eating, drinking, smoking and storing food are prohibited in the workplace.

#### Fire and explosion protection measures

No special measures are required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

##### Requirements for storage rooms and containers

Store in a dry place. Protect from water and moisture.

Keep only in the original, properly labelled and tightly closed containers.

Store in accordance with the requirements stated on the manufacturer's or supplier's label and/or technical specification.

##### Recommended storage conditions

- -18 °C - up to 3 years.
- 0-7 °C - up to 1 year.
- 7-30 °C - up to 6 months.

##### Information on storage with other materials

Keep away from foodstuffs.

Do not store together with incompatible materials (see Section 10).

**Additional information on storage conditions**

No additional requirements.

**7.3 Specific end use(s)**

The intended purpose and appropriate use of the product are specified in the product documentation or on the label.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with occupational exposure limit values in the workplace

Maximum permissible concentration of respirable dust: 10 mg/m<sup>3</sup>.

Observe the applicable national legislation and occupational exposure limit values.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

When handling chemicals, standard occupational safety and hygiene requirements must be observed.

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

##### Respiratory protection

Respiratory protection is generally not required under normal conditions of use.

If ventilation is inadequate, dust is generated, or occupational exposure limits are exceeded, use a suitable respirator fitted with a P-class filter for protection against solid aerosols (EN 14387).

##### Hand protection

Use chemical-resistant protective gloves in accordance with EN 374.

|                                    |                                |
|------------------------------------|--------------------------------|
| <b>Glove material</b>              | Nitrile rubber (NBR) (EN 374). |
| <b>Recommended glove thickness</b> | ≥ 0.4 mm                       |
| <b>Breakthrough time</b>           | ≥ 480 min (EN 16523-1).        |

The glove material must be impermeable and resistant to this product. When selecting protective gloves, account must be taken of resistance to permeation, penetration and chemical degradation.

Depending on the conditions of use, the performance of protective gloves may vary; therefore, the glove manufacturer's recommendations must be followed.

The exact protection time is specified by the glove manufacturer and must be observed.

##### Skin protection / Other protective measures

Wear long-sleeved protective clothing meeting the requirements of EN ISO 6529 and protective footwear in accordance with EN ISO 20345, EN ISO 20346 or EN ISO 20347.

##### Thermal hazards

Not applicable.

#### 8.2.3 Environmental exposure controls

Keep the packaging tightly closed during and after work.

Store containers securely to prevent tipping or accidental spillage.

Immediately clean any product residue from the outer surface of the packaging.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Property                                                     | Value                        |
|--------------------------------------------------------------|------------------------------|
| Physical state                                               | Solid                        |
| Form                                                         | Powder                       |
| Colour                                                       | No data available            |
| Odour                                                        | Not determined               |
| Odour threshold                                              | Not determined               |
| Melting point/freezing point                                 | Not determined               |
| Boiling point or initial boiling point and boiling range     | Not determined               |
| Flammability                                                 | The product is non-flammable |
| Lower explosion limit                                        | Not determined               |
| Upper explosion limit                                        | Not determined               |
| Flash point                                                  | Not applicable               |
| Auto-ignition temperature                                    | Not determined               |
| Decomposition temperature                                    | Not determined               |
| pH                                                           | Not applicable               |
| Kinematic viscosity                                          | Not applicable               |
| Dynamic viscosity                                            | Not applicable               |
| Solubility in water                                          | No data available            |
| Partition coefficient n-octanol/water (log K <sub>ow</sub> ) | Not determined               |
| Vapour pressure                                              | Not applicable               |
| Absolute density                                             | Not determined               |
| Relative vapour density                                      | Not applicable               |
| Particle characteristics                                     | Not determined               |

### 9.2 Other information

#### Information with regard to physical hazard classes

##### Explosive properties

The product does not present an explosion hazard.

##### Volatile organic compounds (VOC)

Not determined.

##### Evaporation rate

Not applicable.

| Physical hazard class | Classification |
|-----------------------|----------------|
| Explosives            | Not applicable |
| Flammable gases       | Not applicable |
| Aerosols              | Not applicable |

| Physical hazard class                                                      | Classification |
|----------------------------------------------------------------------------|----------------|
| Oxidising gases                                                            | Not applicable |
| Gases under pressure                                                       | Not applicable |
| Flammable liquids                                                          | Not applicable |
| Flammable solids                                                           | Not applicable |
| Self-reactive substances and mixtures                                      | Not applicable |
| Pyrophoric liquids                                                         | Not applicable |
| Pyrophoric solids                                                          | Not applicable |
| Self-heating substances and mixtures                                       | Not applicable |
| Substances and mixtures which, in contact with water, emit flammable gases | Not applicable |
| Oxidising liquids                                                          | Not applicable |
| Oxidising solids                                                           | Not applicable |
| Organic peroxides                                                          | Not applicable |
| Corrosive to metals                                                        | Not applicable |
| Desensitised explosives                                                    | Not applicable |

## SECTION 10: Stability and reactivity

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### 10.1 Reactivity

See Section 10.3.

### 10.2 Chemical stability

#### Thermal decomposition and conditions to avoid

See Section 7.

### 10.3 Possibility of hazardous reactions

No hazardous reactions are known under normal conditions of use and storage.

### 10.4 Conditions to avoid

No further relevant information is available.

### 10.5 Incompatible materials

No further relevant information is available.

### 10.6 Hazardous decomposition products

See Section 5.

## SECTION 11: Toxicological information

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### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

#### LD<sub>50</sub> / LC<sub>50</sub> values relevant for classification

Attention: Based on the available information, the toxicological properties of this substance have not been fully investigated.

#### Primary irritant effect

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

#### Respiratory or skin sensitisation

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

#### Specific target organ toxicity (STOT) - single exposure

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

Inhalation of dust may irritate the respiratory tract.

#### Specific target organ toxicity (STOT) - repeated exposure

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

**Aspiration hazard**

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

**Ingestion**

Ingestion may cause abdominal discomfort and other adverse symptoms (e.g. nausea or general malaise). Effects may occur immediately or after a delay.

**Information on mixtures/substances**

Not applicable. The product is a substance, not a mixture.

**Information on likely routes of exposure**

See the information provided in this Section 11.

**Symptoms related to the physical, chemical and toxicological characteristics**

See the information provided in this Section 11.

**Delayed and immediate effects as well as chronic effects from short- and long-term exposure**

See the information provided in this Section 11.

**Interactive effects**

No data available.

**Absence of specific data**

No data available.

**11.2 Information on other hazards****Endocrine-disrupting properties**

The substance is not included in lists of substances with endocrine-disrupting properties.

**Other information**

See the information provided in this Section 11.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Attention: Based on the available information, the ecotoxicological properties of this substance have not been fully investigated.

### 12.2 Persistence and degradability

No further relevant information is available.

### 12.3 Bioaccumulative potential

No further relevant information is available.

### 12.4 Mobility in soil

No further relevant information is available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendations

Waste must be transferred only to a waste operator authorised to carry out waste collection, treatment or disposal activities, in accordance with applicable legislation and the European Waste Catalogue.

When handling waste, the waste hierarchy must be observed and all physical, chemical and other properties of the waste must be taken into account:

- 1 Prevention of waste generation.
- 2 Preparation for reuse.
- 3 Recycling of materials.
- 4 Other recovery (e.g. energy recovery).
- 5 Disposal (e.g. landfill disposal - only for solid or stabilised liquid waste).

See Section 15 for legislation applicable to waste management.

#### European Waste Catalogue (EWC)

Waste codes marked with an asterisk (\*) indicate hazardous waste; codes without an asterisk indicate non-hazardous waste.

| Waste code | Waste description                                     |
|------------|-------------------------------------------------------|
| 16 03 06   | Organic wastes other than those mentioned in 16 03 05 |
| 15 01 02   | Plastic packaging                                     |
| 20 01 39   | Plastics                                              |

#### Uncleaned packaging

#### Recommendations

Treat uncleaned packaging as non-hazardous waste in accordance with applicable waste management legislation.

## SECTION 14: Transport information

### 14.1 UN number or ID number

| Transport regulations | Data           |
|-----------------------|----------------|
| ADR / RID / ADN       | Not applicable |
| IMDG                  | Not applicable |
| IATA                  | Not applicable |

### 14.2 UN proper shipping name

| Transport regulations | Data           |
|-----------------------|----------------|
| ADR / RID / ADN       | Not applicable |
| IMDG                  | Not applicable |
| IATA                  | Not applicable |

### 14.3 Transport hazard class(es)

| Transport regulations | Hazard class   |
|-----------------------|----------------|
| ADR / RID / ADN       | Not applicable |
| IMDG                  | Not applicable |
| IATA                  | Not applicable |
| ADN/R                 | Not applicable |

### 14.4 Packing group

| Transport regulations | Data           |
|-----------------------|----------------|
| ADR / RID / ADN       | Not applicable |
| IMDG                  | Not applicable |
| IATA                  | Not applicable |

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

#### Additional information

Under the requirements of ADR, RID, ADN, IMDG and IATA, the product is not classified as dangerous goods.

## SECTION 15: Regulatory information

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

#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

Annex I - Named dangerous substances: The substance is not listed.

#### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors**

Annex I - Restricted explosives precursors (limit values for licensing purposes under Article 5(3)): The substance is not listed.

Annex II - Reportable explosives precursors: The substance is not listed.

#### **Regulation (EC) No 273/2004 on drug precursors**

The substance is not listed.

#### **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the European Union and third countries**

The substance is not listed.

#### **Applicable European Union legislation**

- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006, as subsequently amended.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH) concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, establishing a European Chemicals Agency (ECHA), as subsequently amended.
- Commission Regulation (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 (REACH) as regards requirements for the compilation of safety data sheets.
- Commission Regulation (EU) 2018/605 concerning the scientific criteria for the determination of endocrine-disrupting properties.
- Directive 2008/98/EC of the European Parliament and of the Council on waste, as subsequently amended.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

## SECTION 16: Other information

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The information contained in this safety data sheet is based on the knowledge available at the date of preparation. It does not constitute a guarantee of specific product properties and does not create any legally binding contractual obligations.

### **Worker training**

Workers must be trained to handle the product in accordance with applicable national legislation and local occupational safety requirements.

**Abbreviations and acronyms**

| Abbreviation                         | Meaning                                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ADR                                  | European Agreement concerning the International Carriage of Dangerous Goods by Road.                               |
| ATE                                  | Acute Toxicity Estimate.                                                                                           |
| CAS                                  | Chemical Abstracts Service.                                                                                        |
| CLP                                  | Classification, Labelling and Packaging Regulation.                                                                |
| EINECS                               | European Inventory of Existing Commercial Chemical Substances.                                                     |
| ELINCS                               | European List of Notified Chemical Substances.                                                                     |
| EL <sub>50</sub>                     | Effective loading rate causing an effect in 50 % of the test organisms.                                            |
| ErC <sub>50</sub> / EC <sub>50</sub> | Effective concentration causing an effect in 50 % of the test organisms.                                           |
| GHS                                  | Globally Harmonized System of Classification and Labelling of Chemicals.                                           |
| IATA                                 | International Air Transport Association.                                                                           |
| IATA-DGR                             | International Air Transport Association Dangerous Goods Regulations.                                               |
| ICAO                                 | International Civil Aviation Organization.                                                                         |
| ICAO-TI                              | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air. |
| IMDG                                 | International Maritime Dangerous Goods Code.                                                                       |
| LC <sub>50</sub>                     | Concentration of a substance causing mortality in 50 % of the test organisms.                                      |
| LD <sub>50</sub>                     | Dose of a substance causing mortality in 50 % of the test organisms (median lethal dose).                          |
| LL <sub>50</sub>                     | Median lethal loading rate.                                                                                        |
| NLP                                  | No-Longer Polymers.                                                                                                |
| NO(A)EL                              | No Observed (Adverse) Effect Level.                                                                                |
| NOEC                                 | No Observed Effect Concentration.                                                                                  |
| NOELR                                | No Observed Effect Loading Rate.                                                                                   |
| RID                                  | Regulations concerning the International Carriage of Dangerous Goods by Rail.                                      |
| SDS                                  | Safety Data Sheet.                                                                                                 |
| UFI                                  | Unique Formula Identifier.                                                                                         |
| VOC                                  | Volatile Organic Compounds.                                                                                        |
| TOC                                  | Total Organic Carbon.                                                                                              |
| Vol. %                               | Volume percent.                                                                                                    |
| PBT                                  | Persistent, bioaccumulative and toxic substance.                                                                   |
| vPvB                                 | Very persistent and very bioaccumulative substance.                                                                |