

**MATERIAL SAFETY DATA SHEET**

In compliance to European parliament and Committee (EC) no. 1907/2006 (REACH)  
and the Committee directive (EU) no. 453/2010

**GHRP-2**

Publication date: 14. 7. 2015

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/  
UNDERTAKING****1.1. Product identifiers**

Product name: **GHRP-2**  
CAS Number: 158861-67-7  
Other names: Gly-D-Ala-D-2-Nal-Ala-Trp-D-Phe-Lys-NH<sub>2</sub>

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

Identified uses: Substance for the research uses only.

**1.3. Details of the supplier of the safety data sheet**

Distributor: **PARTICLE, s.r.o.**  
Address: Ulica mieru 2531/4  
984 01 Lučenec, SLOVAKIA  
ID: IČO 47858541  
Telephone: +421 917 976 258  
E-mail: [info@particlepeptides.com](mailto:info@particlepeptides.com)

**1.4. Emergency Telephone number**

NATIONAL TOXICOLOGICAL INFORMATION CENTRE  
University hospital Bratislava  
Department of Occupational Medicine and Toxicology  
Limbová 5, 833 05 Bratislava, SLOVAKIA  
Telephone: +421 2 5465 2307  
Cellphone: +421 911 166 066  
Fax: +421 2 5477 4605  
E-mail: [ntic@ntic.sk](mailto:ntic@ntic.sk)

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

*Classification of the mixture according to directive (EC) No 1272/2008:* mixture is not considered as hazardous

**2.2. Label elements**

There is no need to label the product in compliance with the directives of European Committee of national regulation/legislation.

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### 2.3. Other hazards

None.

## SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

### 3.1. Substances

Molecular formula:	C47H58N10O7
Molar Mass:	874.45 g/mol
CAS Number:	158861-67-7

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of the first aid measures

In case of an accident of the health issue get immediate medical advice/attention.

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

#### If on skin

Rinse cautiously with water for several minute. Get medical advice/attention.

#### If swallowed

DO NOT INDUCE VOMITING – NOT TO INCREASE THE DANGER OF ADDITIONAL DAMAGE OF DIGESTIVE TRACT!! GET IMMEDIATE MEDICAL ADVICE/ATTENTION!

#### If in eyes

Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. Get immediate medical advice/attention.

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

#### If on skin

May cause skin irritation and/or dermatitis.

MAY CAUSE AN ALLERGIC REACTION.

#### If swallowed

MAY CAUSE RESPIRATORY IRRITATION.

### 4.3. Identification of immediate medical attention and special treatment needed

No data available.

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## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

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

In case of fire flaring can cause the irritation vapour arises.

### 5.3. Precautions for fire-fighters

In case of fire wear self-respiratory protection MSHA/NIOSH (proved or equivalent) and complete protection dress.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required.

### 6.2. Environmental precautions

Avoid soil contamination and outflow to surface or ground water.

### 6.3. Methods and materials for containments and cleaning up

Cover the spill of the mixture with non-flammable absorbent. Store the absorbent in closed containers and handle the waste according the information in paragraph 13.

### 6.4. Reference to other sections

Section 7, 8 a 13

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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Use personal protective equipment as required. Store in a well-ventilated place with exhaust plant.

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

Store in a closed container at temperature: -18°C for 3 years  
0 – 7°C for 1 year  
7 – 30°C for 6 months.

### 7.3. Specific end use/uses

The spontaneous products of flaming occur of in fire.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Does not contain substances with threshold exposure limits for working places.

**8.2. Exposure controls**

Care of the health protection at the working places especially of the good air conditions of the working places. For the good air conditions use local or areal exhausting system.

**Respiratory protection**

Use the mask with the filter protecting against aerosols or ashes.

**Skin protection**

Hand protection: Gloves resistant to the product. Follow the recommendation of the gloves producers for the thickness, material and permeability. For the long term contact with the mixture use proper skin cream.

**Eye/face protection**

Use glasses and face shield (depended on the work you make).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	
Conditions	Powder
Colour	White or coloured
Odour	N/A
pH	N/A
Melting/setting temperature	N/A
Boiling temperature	N/A
Flash temperature	N/A
Surface tension	N/A
Vapour pressure	N/A
Viscosity	N/A
KOW: n-octanol/water	N/A
Decomposition temperature	230°C
Flammability	N/A
Solubility	Soluble in water

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## 9.2. Other safety information

Data not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Chemical stability

The mixture is stable under normal conditions.

### 10.2. Polymerization

None under normal processing.

### 10.3. Possibility of hazardous reactions

Mixture is stable on the normal conditions.

### 10.4. Conditions to avoid

Mixture is stable on normal conditions, no decomposition. Protect against air or humidity for a longer time.

### 10.5. Incompatible materials

Protect against strong oxidants.

### 10.6. Hazardous decomposition products

Nitrous oxide (NO<sub>x</sub>), Ammonia, Cyanides oxides, Sulphured oxides

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Concentrations LD<sub>50</sub> a LC<sub>50</sub> were not set.

#### Chronic toxicity

Chronic exposure may cause retch or vomiting. Higher exposure causes trace.

#### Local effects

Symptoms heavier exposure may be headache, dizziness, lassitude, retch and vomiting.

#### Specific effects

Can content mean or heavy erythema and middle oedema, retch, vomiting, headache.

#### Irritation

No data available.

#### Carcinogenic effects

No data available.

#### Mutagenic effects

No data available.

#### Reproduction toxicity

No data available.

#### Potential health effects

If inhaled	Harmful if inhale. May cause respiratory irritation.
If swallowed	Harmful if swallowed.
Skin	May cause an allergic skin reaction. Causes skin irritation.
Eye	Causes serious eye irritation

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Mobility

Data not available.

### 12.2. Bioacumulative potential

Data not available.

### 12.3. Ekotoxicological effects

Data not available.

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#### 12.4. Toxicity for water organisms

May cause long lasting harmful effects to aquatic life.

#### 12.5. Other adverse effects

Not present

### SECTION 13: DISPOSAL CONSIDERATION

Danger of contamination of the environment, follow your country legislation/regulation.

#### 13.1. Waste treatment methods

Follow valid waste treatment legislation. Non used product and used packaging store into the marked containers and forward to authorised waste company which is authorised to the operation with the specific waste category. It is not allowed to re-use once used packaging again.

#### 13.2. Legislation for the waste treatment

Follow your country legislation/regulation.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1. UN-number

ADR/RID: -

IMDG: -

IATA: -

#### 14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### 14.3. Packaging group

ADR/RID: -

IMDG: -

IATA: -

#### 14.4. Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: no

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**SECTION 15: REGULATORY INFORMATION**

Safety data sheet complies with the Directive (EC) no 1907/2006.

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

Data not available.

**15.2. Chemical safety assessment**

Data not available.

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**SECTION 16: OTHER INFORMATION**

For the research and development purpose only. It is strict prohibited to use the substance for drugs, home use or other use.

**Statement**

Safety data sheet contents data for the health and safety protection for the workers and environment. Data are in compliance up to date knowledge and experience and do comply with valid regulations and legislation. There cannot guaranty overall for the proper use or usage for the concrete application.

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