

SAFETY DATA SHEET

| | |
|------------------------|------------------|
| Creation Date | 01.December.2022 |
| Revision Date | 05.December.2025 |
| Revision Number | 4 |

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

1.1 Product identifiers

| | |
|--------------|----------------|
| Product name | Casein Peptone |
| Product code | GMNB-CP01 |
| Brand | GMExpression |

1.2 Other means of identification

No data available

1.3 Relevant identified uses and uses advised against

| | |
|-----------------------|--|
| Identified uses: | For R&D use only. |
| Uses advised against: | This product should not be used for pharmaceutical, household or other uses. |

1.4 Details of the supplier of the safety data sheet

| | |
|----------|--|
| Company: | General Molecular Expression Service Pty Ltd. LG21 Waite Building, Waite Road, SA 5064 AUSTRALIA |
| E-mail: | support@gmexpression.com |

1.5 Emergency telephone


| | |
|-----------------|--|
| Emergency Phone | Company emergency call (7/24): +61 481-192-170 |
|-----------------|--|

SECTION 2: Hazards identification

2.1 GHS Classification

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

| | |
|--|---|
| Pictogram |  |
| Signal Word | Danger |
| Hazard statement(s) H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Precautionary statement(s) P261 P284 | Avoid breathing dust. Wear respiratory protection. |
| Response P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P342+P311 | If experiencing respiratory symptoms: Call a doctor. |
| Other | This medium has no oxidising or explosive properties. |

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substance

CAS: 91079-40-2

Hazardous ingredients

| Component | Classification | Concentration |
|------------------|------------------|---------------|
| Lactamase | | |
| | Resp.Sens.1;H334 | <= 100% |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

In case of skin contact

Rinse skin with plenty of water. Immediate medical attention is not required.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, and consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Store conditions

Keep container tightly closed in a dry and well-ventilated place.

Store class

Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection

Impervious clothing.

Respiratory protection

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--------------------|
| A) Physical state | Powder |
| B) Colour | Beige |
| C) Odour | No data available |
| D) Melting point/freezing point | No data available |
| E) Initial boiling point and boiling range | No data available |
| F) Flammability (solid, gas) | No data available |
| G) Upper/lower flammability or explosive limits | No data available |
| H) Flash point | No data available |
| I) Autoignition temperature | No data available |
| J) Decomposition temperature | No data available |
| K) PH | No data available |
| L) Viscosity | |
| Viscosity, kinematic: | No data available |
| Viscosity, dynamic: | No data available |
| M) Water solubility | 2,200 g/l at 20 °C |
| N) Partition coefficient n-octanol/water: | No data available |
| O) Vapour pressure | No data available |
| P) Density | No data available |
| Relative density | No data available |
| Q) Relative vapour density | No data available |
| R) Particle characteristics | No data available |
| S) Explosive properties | No data available |
| T) Oxidizing properties | None |

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

Chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

There is no evidence available indicating acute toxicity.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity -single exposure

No data available

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
Not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

| | | | |
|--|--|---------------------------|-------------------------|
| 14.1 UN number | ADR/RID: - | IMDG: - | IATA-DGR: - |
| 14.2 UN proper shipping name | ADR/RID: Not dangerous | IMDG: Not dangerous | IATA-DGR: Not dangerous |
| 14.3 Transport hazard classes | ADR/RID: - | IMDG: - | IATA-DGR: - |
| 14.4 Packaging group | ADR/RID: - | IMDG: - | IATA-DGR: - |
| 14.5 Environmental hazards | ADR/RID: no | IMDG Marine pollutant: no | IATA-DGR: no |
| 14.6 Special precautions for user | | | |
| 14.7 Incompatible materials | | | |
| Further information | Not classified as dangerous in the meaning of transport regulations. | | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation
Therapeutic Goods (Poisons Standard) Instrument:
No poison schedule number allocated.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

General Molecular Expression Service Pty Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See shop.gmexpression.com for additional terms and conditions.