

SAFETY DATA SHEET

Creation Date 01.December.2022
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Revision Number 5

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

1.1 Product identifiers

Product name Genipin
Product code CH-CL-G001/005/010/025
CAS Number 6902-77-8
Brand GMExpression

1.2 Other means of identification

Methyl (1R,4aS,7aS)-1-hydroxy-7-(hydroxymethyl)-1,4a,5,7a-tetrahydrocyclopenta[c]pyran-4-carboxylate

1.3 Relevant identified uses and uses advised against

Identified uses: For laboratory research use only.
Uses advised against: This product should not be used for any 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 (24/7): +61 481 192 170

SECTION 2: Hazards identification

2.1 GHS Classification

H301 - Acute toxicity, Oral (Category 3)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statement(s)
H301 Toxic if swallowed.

Precautionary statement(s)
P264 Wash skin thoroughly using plenty water after handling.
P270 DO NOT eat, drink or smoke when using this product.

P301+P310+P330 IF SWALLOWED:
Immediately call a POISON CENTER and doctor.
Rinse mouth using plenty water.

Storage

P405	Store locked up.
Disposal P501	Dispose of contents and container to an approved waste service agent.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substance

Formula:	C ₁₁ H ₁₄ O ₅
Molecular weight:	226.23 g/mol
CAS number:	6902-77-8

SECTION 4: First aid measures

4.1 Description of first-aid measures

In case of skin contact

Rinse skin with plenty of water. Take off all contaminated clothing.

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). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

Carbon oxides.

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 at 2~8°C for long term storage.

Keep locked up or in an area accessible only to qualified or authorised persons.

Store class

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects.

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	Solid
B) Colour	No data available
C) Odour	No data available
D) Melting point	118.0-123.0°C
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	No data available
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	No data available

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

LD50 Oral - Mouse - 237 mg/kg

Inhalation: No data available

Dermal: No data available

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

Handle in accordance with good industrial hygiene and safety practice.

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

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: 2811

IMDG: 2811

IATA-DGR: 2811

14.2 UN proper shipping name

ADR/RID:

TOXIC SOLID, ORGANIC, N.O.S. (Genipin)

IMDG:

TOXIC SOLID, ORGANIC, N.O.S. (Genipin)

IATA-DGR:

TOXIC SOLID, ORGANIC, N.O.S. (Genipin)

14.3 Transport hazard classes

ADR/RID: 6.1

IMDG: 6.1

IATA-DGR: 6.1

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA-DGR: III

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**

Hazchem Code: 2X

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**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.

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