

Synthgene Biotechnology Co., Ltd. Website: www.synthgene-bio.com

Revision date 25-January-2024

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Version 4

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

1.1 Product identifier

Product No CAP4011-0.1,CAP4011-1,CAP4011-10,CAP4011-100,CAP4011-500

Product name CAP 4 m7G(UNA)(5')ppp(5')(2'OMeA)pG 100mM Ammonium Solution

Pure substance/mixture Mixture

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

Recommended use This product is for research and development only

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier Address

Synthgene Biotechnology Co., Ltd.

Building B6-2, No. 9, Weidi Road, Xianlin University Town, Xianlin Subdistrict, Qixia District, Nanjing City, China

For further information, please contact

Company Phone Number +86(025)83696681 Telefax +86(025)83696681

E-mail address info@synthgene-bio.com

1.4 Emergency telephone number

24 Hour Emergency Phone Number Chemtrec +44 20 3885 0382

China +86(025)83696681

SESECTION 2: Hazards identification

2.1 Classification of the substance or mixture Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2 Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Unknown aguatic toxicity Contains 0 % of components with unknown hazards to the aguatic environment.

2.3 Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physi

-cian.

Ingestion Rinse mouth

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available. Effects of Exposure No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the No information available.

-chemical

5.3 Advice for firefighters

precautions for fire-fighters

Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2 Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Please store in -20°C or below, always avoid freeze-thaw cycles.

Storage class (TRGS 510) Storage class 12.

7.3 Specific end use(s)

Risk management methods [RMM] The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

- Workers

No information available

No information available.

Derived No Effect Level (DNEL)
- General Public

Predicted No Effect Concentration

redicted No Ellect Concentral

No information available.

(PNEC)

Property

limits

8.2 Exposure controls

Engineering controls No information available.

Individual protection measures, such as personal protective equipment

Eye/face protectionNo special protective equipment required. **Skin and body protection**No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Remarks • Method

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear colorless solution
Color Clear colorless solution

Odor Mild.

Odor threshold No information available

Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	None known
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known

Values

Bulk densityNo data availableLiquid DensityNo data available

Vapor densityNo data availableNone knownParticle characteristicsNone known

Particle SizeNo information availableParticle Size DistributionNo information available

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Not applicable

9.2.2 Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No information available.

10.2 Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4 Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5 Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

InhalationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	99,999.00	mg/kg
ATEmix (dermal)	99,999.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-vapor)	99,999.00	mg/l
ATEmix (inhalation-dust/mist)	99,999.00	mg/l

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

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

No information available.

No information available.

No information available.

No information available.

STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

11.2 Information on other hazards 11.2.1.Endocrine disrupting properties

Endocrine disrupting propertiesNo information available.

11.2.2.Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1 Toxicity

EcotoxicityThe environmental impact of this product has not been fully investigated.

Unknown aguatic toxicityContains 0 % of components with unknown hazards to the aguatic environment.

12.2 Persistence and degradability

Persistence and degradability No information available.

12.3 Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4 Mobility in soil

Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessmentNo information available.

12.6 Endocrine disrupting properties

Endocrine disrupting propertiesNo information available.

12.7 Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues/ Dispose of in accordance with local regulations. Dispose of waste in accordance with environ

unused products mental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA 14.1 14.2 Name 14.3 14.4 14.5 14.6	UN number or ID number Extended Proper Shippin Transport hazard class(es) Packing group Environmental hazard Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
IMDG 14.1 14.2 Name 14.3 14.4 14.5 14.6	UN number or ID number Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
14.7	Maritime transport in bulk according to IMO instruments	No information available
RID 14.1 14.2 Name 14.3 14.4 14.5	UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
ADR 14.1 14.2 14.3 14.4 14.5 14.6	UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Environmental hazard Special precautions for user Special Provisions	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated

SECTION 15: Regulatory information

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status DSL/NDSL Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status **KECL PICCS** Contact supplier for inventory compliance status AIIC Contact supplier for inventory compliance status **NZIoC** Contact supplier for inventory compliance status

Legend:
- United States Toxic Substances Control Act Section 8(b) Inventory

TSCA
- Canadian Domestic Substances List/Non-Domestic Substances List

- Canadian Domestic Substances List - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

EINECS/ELINCS

- Japan Existing and New Chemical Substances

ENCS IECSC- China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

15.2.Chemical safety assessment

Chemical Safety ReportNo information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

+ Sensitizers

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safetyand Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared by Environmental, Health and Safety

Revision note SDS is valid 3 years from revision date. Contact info@synthgene-bio.com for latest revision.

Revision date 25-January-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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End of Safety Data Sheet