Material Safety Data Sheet

Revision Date: 28th-August-2022



1. Product and Company Information

Product GC Enhancer

Cat. No. AG101-01

Company TransGen Biotech Co., Ltd.

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2. Composition

Chemical Name	CAS No.	Concentration or Concentration Range (w/w %)
4-Methylmorpholine tetraoxide	7529-22-8	40-70
7529-22-8 (40-70)		

It is recommended to handle all chemicals with caution.

3. Hazards Identification

Health Hazards

Skin corrosion, irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 3

Physical Hazards

no harm

Environmental hazards

no harm

Warning

warn

Hazard Symbol



Dangerous Goods Graphic Symbol Name

exclamation mark

Hazard Statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

4. First Aid Measures

Eye contact	Immediately rinse with plenty of water for at least 15
	minutes, including under the eyelids. Immediate medical
	attention is required.
Skin contact	Immediately rinse with plenty of water for at least 15
	minutes. Remove and wash contaminated clothing and
	gloves, including the inside, before reuse. Immediate
	medical attention is required.
Inhalation	Remove to fresh air. If breathing stops, give artificial
	respiration. If symptoms persist, call a doctor.

Ingestion Do not give anything by mouth to an unconscious victim.

Do not induce vomiting without medical advice. If

symptoms occur, seek medical attention.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media Water spray, Carbon dioxide (CO2), Foam, Dry

powder

Unsuitable extinguishing media No information available

Special dangers

Not known

Firefighters' protective equipment and precautions

Wear self-contained positive pressure breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation

Avoid contact with skin, eyes or clothing

Wear personal protective equipment.

Methods for cleaning up

Use inert absorbent material to soak up spill.

Environmental precautions Avoid discharge into drains and waterways as much

as possible

7. Handling and Storage

Precautions for safe handling Always wear recommended personal protective

equipment. Do not get in eyes, skin or clothing. Do not ingest. If there is a respiratory hazard during normal use of the material, use adequate ventilation

and/or wear appropriate respirator.

Conditions for safe storage Store in a sealed package in a dry, cool and

well-ventilated place. Keep in a properly labeled

container. Store in accordance with local

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Specific use For research use only. Not for diagnostic use.

8. Exposure Controls/Personal Protection

Control parameter

MAC(mg/m³)

No standards available
PC-TWA(mg/m³)

No standards available
PC-STEL(mg/m³)

No standards available
TLV-C(mg/m³)

No standards available
TLV-TWA(mg/m³)

No standards available
TLV-STEL(mg/m³)

No standards available

Exposure controls

Personal protective equipment

Respiratory protection In case of insufficient ventilation, use respirators with

their components tested and approved under

appropriate government standards

Hand Protection Wear appropriate gloves, Glove material: Compatible

chemical resistant gloves.

Eye Protection Tightly sealed goggles

Skin and Body Protection Wear a lab coat to protect yourself.

Hygiene Measures Operate in accordance with good industrial hygiene

and safety practice

Environmental exposure control Avoid discharge into drains and waterways as much

as possible

9. Physical and Chemical Properties

General Information

Form Liquid
Solubility in water Soluble

Others No data available

10. Stability and Reactivity

Reactivity Not known

Stability Stable under normal storage conditions

Hazardous reactions Hazardous reaction has not been reported.

Materials to avoid No dangerous reaction known under conditions of

normal use.

Hazardous polymerization Hazardous polymerization does not occur.

Decomposition products

No data available

11. Toxicological Information

Information on toxicological effects

No data available **Acute Toxicity** No data available Oral-rat LD50 (mg/kg) No data available Dermal-rat LD50 (mg/kg) Inhalation-rat LC50 (mg/m³) No data available Subcutaneous-rat LD50 (mg/kg) No data available Intravenous-rat LD50 (mg/kg) No data available Peritoneal cavity-rat LD50 (mg/kg) No data available No data available Oral-mouse LD50 (mg/kg) Dermal- mouse LD50 (mg/kg) No data available No data available Intravenous-mouse LD50 (mg/kg)

Main routes of exposure

Peritoneal cavity-mouse LD50 (mg/kg)

Stimulate Skin irritation, serious eye damage/eye

irritation

Corrosive Data identifiable but insufficient for

classification

No data available

Sensitization Data identifiable but insufficient for

classification

Exposure Specific target organ toxicity - May cause respiratory irritation

single exposure

Exposure Specific target organ toxicity - Data identifiable but insufficient for

repeated exposure classification

Carcinogenicity Data identifiable but insufficient for

classification

Germ cell mutagenicity Data identifiable but insufficient for

classification

Reproductive toxicity Data identifiable but insufficient for

classification

Inhalation hazard Data identifiable but insufficient for

classification

12. Ecological Information

Carcinogenic effects

No data available

Mobility

No data available

In vivo degradation

No data available

Bioaccumulation

No data available

13. Disposal Considerations

Disposal Precautions

Waste should be avoided or minimized as much as possible. Empty containers or liners may retain some product residues. The substance and its container must be disposed of in accordance with approved disposal techniques. The disposal of the product, its solution or any by-products should refer to relevant national and local regulations.

14. Transport Information

Hazard class

UN number

No data available

Packing group

No data available

Packing method

No data available

Transportation considerations Package should be intact upon departure. Loading

should be handled carefully. During transportation, prevent the containers from leakage, collapse, fall or damage. Transportation combined with oxidants,

edible chemicals, etc. is strictly prohibited. It should be protected from exposure to sun light, rain and high temperature during transportation. The vehicle should

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be thoroughly cleaned after transportation. Road transportation must follow the prescribed route.

15. Regulatory Information

The following laws, regulations and standards have made corresponding provisions on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals: The Production Safety Law of the People's Republic of China (adopted at the 27th meeting of the Standing Committee of the Ninth People's Congress on June 29, 2002); The Environmental Protection Law of the People's Republic of China (adopted at the 11th meeting of the Standing Committee of the Seventh National People's Congress on December 26, 1989)

16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation. These recommendations are based on prudent professional judgment. This information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, quantities, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this MSDS does not constitute a warranty of marketability or suitability for any particular purpose, expressed or implied.

End of Safety Data Sheet