
Material Safety Data Sheet

Revision Date: 9-August-2021



1. Product and Company Information

Product Name *ProteinSafe*[™] Protease Inhibitor Cocktail (100×)
Cat. No. DI111-01/02
Company TransGen Biotech Co., Ltd.
Technical Phone +86-400-898-0321
Fax +86-10-57815011
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2. Composition

Chemical Name	CAS-No	Concentration or Concentration Range (w, w%)
Dimethyl Sulfoxide (DMSO)	67-68-5	95-100
4-(2-Aminoethyl) Benzenesulfonyl Fluoride Hydrochloride	30827- 99-7	1-5

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 2

Physical Hazards

Not Hazardous

Environmental Hazards

Not Hazardous

Signal Word

Warning

Hazard Symbol**Hazard Statements**

H315 - Causes skin irritation

H264 - Cause serious eye irritation

Precautionary statements**Precaution**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling.

Response

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

N/A

Dispose

N/A

Other Hazards

N/A

4. First Aid Measures

Eye contact	Rinse carefully with water for a few minutes. Remove contact lenses if they are worn and easily accessible. Continue rinsing.
Skin contact	Wash skin with water. No immediate medical attention is required.
Inhalation	Not expected to present a significant ingestion hazard under expected normal conditions of use. If you feel unwell, seek medical attention.

Ingestion	Not expected to be an inhalation hazard under the expected normal conditions of use for this material. Consult a doctor if necessary.
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Notes to physician	Treat symptomatically.
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Special Note for Doctors	N/A
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5. Fire-Fighting Measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical
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Unsuitable extinguishing media	No data available
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Special Dangers	No data available
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Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
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6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation and always wear recommended personal protective equipment.
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Methods for cleaning up	Soak up with inert absorbent material.
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Environmental precautions	No special environmental precautions required.
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7. Handling and Storage

Precautions for safe handling	Use the required personal protective equipment, no special operating advice is required.
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Conditions for safe storage	Keep container sealed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Prevent direct sunlight.
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Specific use	For research use only. Not for diagnostic use.
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8. Exposure Controls/Personal Protection

Control parameter

MAC(mg/m ³)	No standards available
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PC-TWA(mg/m ³)	No standards available
PC-STEL(mg/m ³)	No standards available
TLV-C(mg/m ³)	No standards available
TLV-TWA(mg/m ³)	No standards available
TLV-STEL(mg/m ³)	No standards available
Exposure controls	
Personal protective equipment	
Respiratory protection	If ventilation is poor, 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 appropriate protective clothing
Hygiene Measures	Operate in accordance with good industrial hygiene and safety practice.
Environmental exposure control	No special measures required

9. Physical and Chemical Properties

General Information

Form: Liquid

Water solubility: Soluble

pH Value: Unknown

Others: No information available.

10.Stability and Reactivity

Reactivity	Unknown
Stability	Stable under normal conditions
Hazardous reactions	Hazardous reactions have not been reported.
Materials to avoid	No information available
Incompatible substances	There are no known hazardous reactions under normal use.
Hazardous decomposition	No information available

11. Toxicological Information

Information on toxicological effects

Acute Toxicity	No data available
Oral-rat LD50 (mg/kg)	DMSO: 14500; 4-(2-Aminoethyl) Benzenesulfonyl Fluoride Hydrochloride: No data available
Dermal-rat LD50 (mg/kg)	No data available
Inhalation-rat LC50 (mg/m ³)	DMSO: >5.33; 4-(2-Aminoethyl) Benzenesulfonyl Fluoride Hydrochloride: 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
Oral-mouse LD50 (mg/kg)	No data available
Dermal- mouse LD50 (mg/kg)	No data available
Intravenous-mouse LD50 (mg/kg)	No data available
Peritoneal cavity-mouse LD50 (mg/kg)	No data available

Main route of exposure

Acute toxicity	Data identifiable but insufficient for classification
Skin corrosion/irritation	Data identifiable but insufficient for classification
Serious eye damage/irritation	Data identifiable but insufficient for classification
Respiratory or skin irritation	Data identifiable but insufficient for classification
Exposure Specific target organ toxicity - single exposure	Data identifiable but insufficient for classification

Exposure Specific target organ toxicity - repeated exposure	Data identifiable but insufficient for 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

Ecotoxicity effects	Does not contain substances that are dangerous to the environment or that cannot be degraded in wastewater treatment plants.
Mobility	No information available.
Biodegradation	No information available.
Bioaccumulation	No information available.

13. Disposal Considerations

Disposal Notes:

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	No data available
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 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