

SAFETY DATA SHEET

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

Product Name: STEM-CELLBANKER DMSO Free GMP grade

Product Code: 13926(100mL), 13925(20mL)

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

Identified uses: Research reagents

Restrictions on use: Use for purposes other than those recommended is prohibited.

Details of the supplier of the safety data sheet

Company: ZENOGEN PHARMA CO., LTD.

1-1 Tairanoue, Sasagawa, Asaka-machi, Koriyama City,
Fukushima 963-0196, Japan

Department in charge: Pharmaceutical&technology Business Division

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SECTION 2: Hazards identification

GHS classification and label elements, including precautionary statements:

Not applicable

SECTION 3: Composition/information on ingredients

Uniform product or mixture: Mixture

Product composition:

Ingredients	CAS №	EINECS №	RTECS #	Amount (%)
Propylene glycol	57-55-6	200-338-0	TY6300000	10%
Inorganic salts	-	-	-	≤10%

Note : Including others and pH adjusters

Hazardous ingredients: Ingredients that fall under the category of 'hazardous substances that must be indicated' in the Industrial Safety and Health: Propylene glycol

Ingredients that fall under the category of 'hazardous substances that must be notified' in the Industrial Safety and Health: Propylene glycol

SECTION 4: First aid measures

- If inhaled:** If breathed in, move person into fresh air. Keep calm and warm. Consult a physician immediately.
- In case of skin (or hair) contact:** If skin irritation or rash occurs, get medical advice or treatment.
- In case of eye contact:** Immediately flush eyes with running water. Consult a physician immediately.
- If swallowed:** If conscious, give one to two glasses of water or milk. Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

- Extinguishing media:** Suitable extinguishing agent
- Use water**
- Special hazards arising from the substance or mixture:**
May give off irritating or toxic fumes (or gasses) in fires. During firefighting, wear proper protective equipment to avoid smoke inhalation.
- Advice for firefighters**
- Unique extinguishing method:**
Extinguish with extinguishing media, cutting off the source of the fire. Promptly move all movable containers to a safe location. Cool non-movable containers by spraying mist around the area.
- Special protective equipment and precautions for firefighters:**
Perform firefighting activities upwind, avoiding the inhalation of hazardous gasses. Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures:**
Do not allow anyone other than those involved to approach.
Provide adequate ventilation until collection is complete.
- Environmental precautions:** Prevent spilled material from entering sewers, drains and low-lying areas.
- Methods and material for containment and cleaning up:**
Fire is strictly prohibited. Absorb the leaked liquid with a waste cloth, dust, cloth and collect it in an empty container, and then wash it away with a

large amount of water.

Always wear protective glasses when working.

Do not work downwind.

SECTION 7: Handling and storage

Handling

Technical countermeasures (Handler exposure protection) :

Wear proper protective equipment to avoid inhalation and prevent contact with eyes, skin, and clothing.

Storage

Conditions for safe storage: 2~8 °C or below -20°C

SECTION 8: Exposure controls/personal protection

Control parameters

Control concentration and concentration standard value: Not configured

Permissible concentration

Japan Society for Occupational Health: Not configured

ACGIH: Not configured

Exposure Prevention

Facility control: Ensure adequate ventilation, especially in confined areas

Protective equipment

Respiratory protection: Wear respirators as appropriate.

Hand protection: Wear protective gloves as appropriate.

Eye protection: Wear safety glasses as appropriate.

Skin and Body protection: Wear protective clothing as appropriate.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form:	Liquid
Color:	Clear and colorless
Odor:	Slight characteristic odor
Odor threshold:	No data available
Melting/Freezing point:	No data available
Boiling/Initial boiling point:	No data available

Boiling range:	No data available
Flammability:	No data available
Explosive limits (Lower/Upper):	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Self-accelerating decomposition temperature:	No data available
pH:	7.0~9.0 (20°C)
Dynamic viscosity:	No data available
Viscosity (coefficient of viscosity):	No data available
Solubility	
[water]:	No data available
[solvent]:	No data available
Octanol/water partition coefficient:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density/Relative density:	No data available
Relative gas density (air=1):	No data available
Relative density of the vapor/air-mixture at 20°C (air = 1):	No data available
Particle characteristics:	No data available
Critical temperature:	No data available
Evaporation rate:	No data available
Volatile organic compounds:	No data available
Other data:	No data available

SECTION 10: Stability and reactivity

Reactivity: No data available

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

[Component data]

[NITE-CHRIP]

(Propylene glycol)

Oral LD50: rat LD50=8000-46000mg/kg (NITE)

Skin LD50: rabbit LD50=20800 mg/kg (NITE)

Local effects:

Skin corrosive / irritation: No data available

Serious eyes damage / Eyes irritation: No data available

Respiratory organs sensitization / Skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Teratogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity

[Component data]

[NITE-CHRIP]

(Propylene glycol)

Single: Category 1, blood system, central nervous system (NITE)
Category 3, anesthetic action (NITE)

Repeat: Category 1, central nervous system, respiratory (NITE)

Aspiration hazard: No data available

SECTION 12: Ecological information

Eco toxicity

[Component data]

Aquatic environmental toxicity

[NITE-CHRIP]

(Propylene glycol)

Acute: Algae (*Selenastrum capricornutum*) EC50 (growth rate): >1000mg/L/72h (NITE)

Crustacean (*Daphnia magna*) EC50 (swimming inhibition): >1000mg/L/48h (NITE)

Fish (medaka) EC50 (swimming inhibition): >1000mg/L/96h (NITE)

Chronic: Algae (*Selenastrum capricornutum*) NOEC (growth rate):=1000mg/L/72h (NITE)

Crustacean (*Daphnia magna*) EC50 (reproduction inhibition):=1000mg/L/21days (NITE)

Solubility in water [Propylene glycol]: Mixing (ICSC, 2014)

Persistence/Degradability [Propylene glycol]: Rapidly degradable

(Resolution by BOD: 90%, NITE)

Biological concentration [Propylene glycol]: log Pow= -0.92 (ICSC, 2014)

Mobility in soil: No data available

Hazardous to the ozone layer: No data available

SECTION 13: Disposal considerations

Information for safe and environmentally desirable disposal/recycling of chemicals contaminated container and packaging

Waste treatment methods

Avoid release to the environment

Dispose of contents/container in accordance with local/national regulations.

SECTION 14: Transport information

UN number: Not applicable

UN classification: Not applicable

Marine pollutant: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code: Not applicable

Ship Safety Law: Not applicable

Civil Aeronautics Law: Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations or laws specific to the product

Poisonous and Deleterious Substances Control Law: Not applicable

Industrial Safety and Health Law: Not applicable

Ordinance on Prevention of Organic Solvent Poisoning: Not applicable

Name indication: hazardous/harmful substance

propylene glycol

Name notification: hazardous/harmful substance

propylene glycol

PRTR: Not applicable

Fire Service Law: Not applicable

Priority Assessment Chemical Substances based on the Japan JCSCL: Propylene glycol

Pharmaceuticals and Medical Devices Law: Not applicable

SECTION 16: Other information

References

Globally Harmonized System of classification and labeling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 23th edit., 2023 UN

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2025 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019

JIS Z 7253 : 2019

Acceptable concentration recommendations 2024 (Japan Society for Occupational Health)

STEM-CELLBANKER DMSO Free GMP grade, ZENOGEN PHARMA CO., LTD
13926(100mL) 13925(20mL), 01/04/2025

Notification 0111, Article No. 1 of the Director of Chemical Substances Division, Safety and Health Department, Labor Standards Bureau, Ministry of Health, Labor and Welfare, Japan, 11, Jan. 2022.

Supplier's data/information

Responsibilities

This description is based on materials and information data available at this time, and may be revised according to new knowledge. The precautions are intended for normal handling, and in the case of special handling, please use after implementing sufficient safety measures. The calculation basis for the GHS classifications described here is the current data published in Japan (NITE-CHRIP 2023).