CELLBANKER 1 plus, ZENOGEN PHARMA CO., LTD 11912(100m), 11913(20mL), 01/04/2025

Issue Date: 05/07/2013 Revision Date: 01/04/2025

SAFETY DATA SHEET

SECT	TON 1: Identification of t	ne substance/mixture and of the company/undertaking		
	Product Name:	CELLBANKER 1 plus		
	Product Code:	11912(100mL), 11913(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		
	Telephone:	+81-24-947-8503		
	Fax:	+81-24-947-8507		

SECTION 2: Hazards identification

lements, including precautionary statements:	
Specific target organ toxicity (single exposure): Category 2	
Warning	
Hazard information May cause damage to organs	
Do not breathe dust/fume/mist.	
Wash contaminated area thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
IF exposed or concerned, get medical attention.	
Dispose of contents/container in accordance with local/national regulations.	

Specific hazards:

Wash contaminated areas thoroughly after handling.

Do not breathe mist/vapours.

SECTION 3: Composition/information on ingredients

Uniform product or mixture: Mixture

Product composition:

Ingredients	CAS No	EINECS №	RTECS #	Amount (%)
Dimethyl sulfoxide	67-68-5	200-664-3	PV6210000	10%
Medium component	-	-	-	≦10%
Bovine serum	-	-	-	≦50%

Note: Including others and pH adjusters

Hazardous ingredients: No hazardous or harmful ingredients that fall under Poisonous and Deleterious Substances Control Law, Industrial Safety and Health Law, or PRTR.

Applicable ingredient corresponding to the GHS classification and the health hazards symbol: Dimethyl sulfoxide

SECTION 4: First aid measures

General measures:	If exposed or concerned, get medical attention.		
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: Wash with plenty of water and soap.			
	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	m 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 nonmovable 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) :

Do not inhale dust/fume/gas/mist.

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

Storage:

Conditions for safe storage: $2 \sim 8 \,^{\circ}\text{C}$ or below -20°C

SECTION 8: Exposure controls/personal protection

Control parameters

Control concentration and concentration standard value:Not configuredPermissive concentrationNot configured

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.
Hygiene measures:	Wash contaminated areas thoroughly after handling.
	Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form:	Liquid		
Color:	Light tan or brown, clear or slight turbidity		
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:	nture: No data available		
Self-accelerating decomposition temperature: No data available			
рН:	7.0~8.5 (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 availa		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	Acute toxicity [Component data]		
[Component data]			
[NITE-CHRIP]			
(Dimethyl sulfoxide)			
Oral LD50: rat LD50=14500mg/kg	(NITE)		
Skin LD50: rat LD50=40000 mg/kg	(NITE)		
Inhalation LD50: mist: rat LC50: >	5330mg/m ³ (4 hours) (NITE)		
Local effects:			
Skin corrosive / irritation:	No data available		
Serious eyes damage / Eyes irritatio	n: 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 (single);			
[Product]			
	Category 2, May cause damage to organs		
[Component data]			
[NITE-CHRIP]			
(Dimethyl sulfoxide)			
	Category 2, Respiratory (NITE)		

Specific target organ toxicity (repeat);	No data available
Aspiration hazard:	No data available

SECTION 12: Ecological information

Eco toxicity [Component data] Aquatic environmental toxicity (acute) [NITE-CHRIP] (Dimethyl sulfoxide) **Crustacean EC50:** EC50=6830 mg/L/24hr (NITE) Solubility in water (Dimethyl sulfoxide): Mixing (ICSC, 2000) **Persistence/Degradability:** No data available **Biological concentration** [NITE-CHRIP] (Dimethyl sulfoxide) log Pow=-1.35 (calculated) (ICSC, 2000) 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:	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			
Chemicals causing skin problems (Section 594-2):	Dimethyl sulfoxide		
PRTR:	Not applicable		
Fire Service Law:	Not applicable		
Specified Chemical Substances, monitoring chemicals, Priority Assessment Chemical Substances			
based on the Japan JCSCL Japanese Chemical Substances Control Law: Not applicable			
Pharmaceuticals and Medical Devices Law:	Not applicable		
Applicable Laws and Regulation:			
Pharmaceutical and Medical Device Act: Not ap	plicable		

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)

2025 TEVS and DEIS. (11

JIS Z 7252 : 2019

JIS Z 7253 : 2019

Acceptable concentration recommendations 2024 (Japan Society for Occupational Health)

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

Hazard Communication Standard - 2012 (29 CFR 1910. 1200)

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 2023).