

SAFETY DATA SHEET

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

Product Name: STEM-CELLBANKER DMSO Free GMP grade
Company: Zenoaq Resource Co.Ltd.
 1-1 Tairanoue, Sasagawa, Asaka-machi, Koriyama City,
 Fukushima 963-0196, Japan
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Product Number: ZR645

SECTION 2: Composition/information on ingredients

Uniform product or mixture: Mixture
Intended Use: Cryopreservation Solution for Cells and Tissues
Product composition:

Ingredient	CAS №	EINECS №	RTECS #	Amount (%)
1,2-Dihydroxypropane	57-55-6	200-338-0	TY6300000	10%
Inorganic salts				≤ 10%

Hazardous ingredients: Not applicable

SECTION 3: Hazards identification

Most significant hazard:

Hazards: Contact with the skin may cause primary irritation, redness, chemical burns, itchiness, and exfoliation. Hives may also form.
 Contact with eyes may cause redness and blurred vision.
 Inhalation may cause headache and nausea.
 Ingestion may cause nausea, vomiting, and drowsiness.

Environmental: No data available.

Physical and chemical hazards:

No data available.

Classification: Not applicable to classification criteria.

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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 contact:** Wash off with soap and plenty of water. Remove contaminated clothes. Consult a physician if area becomes inflamed.
- In case of eye contact:** Immediately flush eyes with running water for several minutes (remove contact lenses if easily possible). Consult a physician immediately.
- If swallowed:** Rinse mouth thoroughly with water and have person drink one to two glasses of water or milk. Consult a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

- Extinguishing media:** Fire-extinguishing powder, carbon dioxide, foam (alcohol foam), 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:** 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.
- Protection 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:** If indoors, ventilate adequately until disposal is complete. Rope off location around area of release to prevent access by unauthorized personnel.
- Environmental precautions:** Do not let product enter drains. Ensure that contaminated waste water is not released into the environment before being properly treated.
- Methods for cleaning up:** Keep away from fire. Mop up spilled liquid with rags, towels, or earth, collect in an empty container, and wash away with plenty of water.
Be sure to wear protective equipment when working. Work upwind.

SECTION 7: Handling and storage

- Precautions for safe handling:** Wear proper protective equipment to avoid inhalation and prevent contact with eyes, skin, and clothing.
- Conditions for safe storage:** Store at 2 to 8°C.

If storing for 3 or more months after the product is opened, keep at a temperature no greater than -20°C.

SECTION 8: Exposure controls/personal protection

Facility control: Install local ventilation.

Control concentration and working environment criteria:

Not established.

Allowable concentration:

Japan Association of Industrial Health:

Not established

ACGIH TLV(S): Not established

OSHA PEL: Not established

Protective equipment:

Respiratory protection: Protective mask for organic gasses

Hand protection: Protective gloves

Eye protection: Protective eyewear

Skin protection: Protective clothing

SECTION 9: Physical and chemical properties

Form: Liquid

Color: Clear, colorless liquid

Odour: Slight characteristic odor

pH: 7.0-9.0 (20°C)

Boiling point: No data available

Melting point: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Explosive properties: No data available

Vapor pressure: No data available

Specific gravity: No data available

Solubility: Dissolves in water

SECTION 10: Stability and reactivity

No data available

SECTION 11: Toxicological information

No data available

SECTION 12: Ecological information

No data available

SECTION 13: Disposal considerations

Dispose according to local public and other applicable regulations.

SECTION 14: Transport information

UN number: Not applicable
UN classification: Not applicable
Marine pollutant: Not applicable
Precautions: When transporting, keep away from direct sunlight and take adequate precautions to avoid release and fires.

SECTION 15: Regulatory information

Fire Service Law: Not applicable
Poisonous and Deleterious Substances Control Law:
Not applicable
Industrial Safety and Health Law:
Not applicable
Ship Safety Law (Regulations for the Carriage and Storage of Dangerous Goods in Ship):
Not applicable
Civil Aeronautics Law: Not applicable
Law for promotion of Chemical Management (Pollutant Release and Transfer Register Law):
Not applicable

SECTION 16: Other information

Reference : The source of information of this safety data sheet was provided from the raw material manufacturers.

Handle with great care as hazards and toxicity may not have been fully evaluated. This data sheet was created to provide information, and no guarantees are made about the statements it contains. The information presented regards mainly general handling procedures and may not factor in handling of the product for non-reagent purposes or handling of large quantities of the product. This document contains the most recent available information but is not comprehensive. The information may be supplemented or revised if newer information becomes available.

The numerical values presented are reference values for safe handling but do not represent any guarantee. When using the product under special conditions, implement safety measures according to the environment of use.

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