

Date prepared: Nov 15, 2018

SAFETY DATA SHEET (SDS)

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product name: BAMBANKER® Direct  
Supplier  
Company name: GC Lymphotec Inc.  
Department in charge:  
Reagent Manufacturing Division, Regenerative Medical Manufacturing Department  
Address: 18-4 Fuyuki, Koto-ku, Tokyo, Japan  
Emergency telephone number: +81-3-3630-2530  
Recommended use and limitations on use: Cell freeze-preservation solution

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2. HAZARDS IDENTIFICATION

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GHS classification

This product is not classified as a hazardous mixture according to the GHS classification.

GHS label elements

No pictogram assigned

No signal word assigned

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3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture/single chemical: Mixture

Component	CAS No.	CSCL regulation gazette reference no.	Industrial Safety and Health Act gazette reference no.	Content (%)
Dimethyl sulfoxide	67-68-5	(2)-1553	N/A	20%
Bovine serum albumin	9048-46-8	N/A	N/A	≤ 70%
Medium components	N/A	N/A	N/A	≤ 10%

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#### 4. FIRST AID MEASURES

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##### Inhalation

Remove the victim to fresh air and try to keep them at rest and warm. If symptoms persist, seek medical advice or care.

##### Skin contact

Wash thoroughly with soap and plenty of water immediately. If symptoms persist, seek medical advice or care.

##### Eye contact

Wash thoroughly with plenty of water immediately. If symptoms persist, seek medical advice or care.

##### Ingestion

Rinse mouth. Do NOT induce vomiting. Seek medical advice or care immediately.

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#### 5. FIRE-FIGHTING MEASURES

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##### Extinguishing media

In case of fire, use foam, alcohol-resistant foam, powder, carbon dioxide, or water.

##### Specific hazards

Since it generates irritating or toxic gas in case of fire, wear appropriate protective equipment to avoid inhaling smoke when extinguishing fire.

##### Recommendations for firefighters

###### Special firefighting procedures

Remove combustion sources at the origin of a fire and extinguish with fire-extinguishing media.

Promptly transfer movable containers to a safe place.

If it cannot be moved, cool down the surrounding area by spraying water.

###### Protection of firefighters

Firefighting should be done from the upwind side, while avoiding inhaling toxic gas.

Wear a respiratory protector depending on the situation.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions, protective equipment, and emergency procedures

When indoors, ventilate thoroughly until the handling is completed. Prohibit unnecessary people from entering the leakage site. Wear appropriate protective equipment when working to avoid splashes adhering to the skin and inhalation of gas. Perform fire-extinguishing work from the upwind side and evacuate anyone who is downwind.

### Environmental precautions

Do not let the leaked product flow into rivers, etc. where it could cause environmental harm. Do not discharge contaminated wastewater to the environment without proper treatment.

### Methods and materials for containment and cleanup

Collect the leaked liquid in a container that can be sealed by adsorbing it using rags, dust-cloths, or soil.

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## 7. HANDLING AND STORAGE

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### Handling

#### Technological countermeasures

Wear appropriate protective equipment to avoid inhalation and contact with the eyes, skin and clothing.

### Storage

#### Proper storage condition:

Avoid direct sunlight, and store in a cool, dark place (2–10°C).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Equipment countermeasures

Handle in a place with adequate ventilation, provide a handwashing facility nearby, and display its location clearly.

### Exposure limit

Acceptable concentration determined by the Japan Society for Occupational Health: No data available

### Personal protective equipment

#### Respiratory protection

Wear a protective mask depending on the situation.

#### Hand protection

Wear protective gloves depending on the situation.

#### Eye protection

Wear protective glasses depending on the situation.

#### Skin and body protection

Wear long-sleeved work clothes depending on the situation.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color, etc.):	Yellow, clear liquid
Odor:	None
pH:	7.0–7.7
Melting point/freezing point:	No data available
Boiling point, initial boiling point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower limit of flammability or explosibility range:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Specific gravity/density:	No data available
Solubility:	No data available
Partition coefficient of n-octanol/water:	No data available
Spontaneous ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (coefficient of viscosity):	No data available
Kinetic viscosity:	No data available

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## 10. STABILITY AND REACTIVITY

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### Stability

It is stable at the recommended storage temperature.

### Reactivity

It turns red when released to the atmosphere.

### Possible hazardous reaction

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No hazardous reactions occur in normal handling.

Conditions to avoid

Avoid high temperature and direct sunlight.

Hazardous decomposition products

No data available

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## 11. TOXICOLOGICAL INFORMATION

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Acute toxicity:	No data available
Local toxicity:	No data available
Sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Teratogenicity:	No data available
Toxicity when eaten raw:	No data available
Specific target organ toxicity (single/repeated exposure):	No data available
Aspiration hazard:	No data available

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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity:	No data available
Persistence, degradability:	No data available
Bioaccumulation:	No data available
Mobility in soil:	No data available
Hazard to the ozone layer:	No data available

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### 13. DISPOSAL CONSIDERATIONS

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Contents and containers shall be disposed of in accordance with appropriate laws and regulations of the region, country, or local site.

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### 14. TRANSPORT INFORMATION

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UN number is not applicable.

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### 15. REGULATORY INFORMATION

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Fire Service Act:	Not applicable
Poisonous and Deleterious Substances Control Act:	Not applicable
Industrial Safety and Health Act:	Not applicable
Regulations for the Carriage and Storage of Dangerous Goods by Ship:	Not applicable
Civil Aeronautics Act:	Not applicable
PRTR Law:	Not applicable
Export Trade Control Order:	Not applicable

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### 16. OTHER INFORMATION

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#### DISCLAIMER

The contents described in this SDS do not cover all the information, but are based on the materials, information and data available at the present time. When new information is obtained, the contents of this SDS may be added or corrected.

The precaution statements are for normal handling. For special handling, please handle after taking safety measures suitable for the dosage and administration.

The basis for calculating the GHS classification category is the data published in Japan at the present time (NITE, 2016).

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