



Bambanker™ DMSO Free

Cat. No.	Product	Content
BBF01	Bambanker™ DMSO Free	1 x 20 mL

1. Identity of the substance and the manufacturer

1.1. Name of the substance or preparation

Bambanker™ DMSO Free.

1.2. Recommended use of the chemical and restrictions on use

Laboratory research use only.

1.3. Name and address of the manufacturer

GC Lymphotec Inc.
18-4 Fuyuki, Koto-ku, Tokyo, Japan

1.4. Emergency telephone contact

+49 2421/554960

2. Hazards identification

Irritating to eyes, respiratory system and skin.

May be harmful if inhaled and ingested.

It can be absorbed through skin and can cause harmful effects.

(1); NFPA : HR= health-1, flam.-1, react.-0, HMIS : HR= health-1, flam.-1, react.-0



3. Composition/information about the components

3.1. Substance/mixture

Mixture/single chemical: mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First-aid measures

4.1. Description of necessary first-aid measures

4.1.1. General advice

Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

4.1.2. Inhalation

Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

4.1.3. Skin contact

Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

4.1.4. Eye contact

Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

4.1.4. Ingestion

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.



5. In case of fire

5.1. Conditions of flammability

No data available.

5.2. Suitable extinguishing agents

Carbon dioxide, dry chemical powder, foam, water.

5.3. Not suitable extinguishing agents

No data available.

5.4. Fire and explosion hazards

Toxic, irritating fumes or smoke may be emitted.

5.5. Special protective equipment for firefighters

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. In case of spillage

6.1. Personal precautions, protective equipment and emergency procedures

Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3. Methods and materials for containment and cleanup

Do not touch spilled material without suitable protection (See section 8). Take up spilled material with ashes or other absorbents. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.



7. Handling and storage

7.1. Handling

Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure.

Handle material with suitable protection away from source of heat or ignition and use non-sparking type tools.

7.2. Storage

Store away from sunlight in a cool(2-10 °C= 35.6-50 °F) well-ventilated dry place. Keep container tightly closed.

7.3. Incompatible products

Strong oxidizers, strong reducing agents, strong acids, acid chlorides, phosphorus halides, water reactive materials (alkali metals).

8. Exposure controls/personal protection

8.1. Equipment countermeasures

Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

8.2. Ventilation

Local Exhaust: necessary

Mechanical (general): recommended

8.3. Control parameter

- OSHA Final Limits :none established
- ACGIH TLV(s) : none established



8.4. Personal protective equipment

8.4.1. Respiratory protection

NIOSH/MSHA approved respirator.

8.4.2. Hand protection

Wear protective chemical resistant gloves.

8.4.3. Eye protection

Wear protective glasses (goggles).

8.4.4. Skin and body protection

Wear long-sleeved work clothes.

9. Physical and chemical properties

Appearance	Liquid
Odour	No data available
pH (at 25°C)	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
High/low flammability or explosive limit	No data available
Vapor Pressure	No data available
Vapor density	No data available
Density/relative density	No data available
Water solubility	Miscible
Alcohol solubility	Miscible
Acetone solubility	Miscible
log Po/w	No data available



10. Stability and reactivity

10.1. Conditions to avoid

Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition source.

10.2. Incompatibility (material to avoid)

Strong oxidizers, strong reducing agents, strong acids, acid chlorides, phosphorus halides, water reactive materials (alkali metals).

10.3. Hazardous decomposition products

Carbon monoxide, nitrogen oxides, sulfur oxides, methyl mercaptan and formaldehyde may be formed.

10.4. Hazardous polymerization

Will not occur.

11. Toxicological information

11.1. Acute toxicity*

- LD50 (orl, rat): 14500 mg/kg (TXAPA9 15, 74, 1969)
- LD50 (orl, mouse): 7920 mg/kg (CHTPBA 3, 10, 1968)
- TDLo (skin, woman): 1800 mg/kg (VHTODE 40, 87, 1998)

11.2. Irritation*

- Eye: rabbit, 500 mg/24H, Mild (85JCAE - 1044, 1986)
- Skin: rabbit, 500 mg/24H, Mild (85JCAE - 1044, 1986)

11.3. Mutation*

- Mutation in microorganisms: *S.typhimurium*, 25 pph (MUREAV 303, 127, 1993)

11.4. Reproductive effects*

- TDLo (orl, mouse): 16 mg/kg (5-9 D preg) (TXAPA9 15, 152, 1969)



11.5. Tumorigenic*

- TDLo (orl, rat): 59 gm/kg / 81W-I; (GTPZAB 28(5), 39, 1984)

11.6. Additional information

- NTP: not listed
- IARC: not listed
- OSHA: not listed
- ACGIH: not listed

* EPA GENETOX PROGRAM 1988, Positive: *Aspergillus-eneuploidy: S cerevisiae* gene conversion

12. Ecological information

12.1. Ecotoxicity

No data available.

12.2. Persistence and degradability*

This material is not biodegradable.

12.3. Bioaccumulative potential*

This material is not or low bioaccumulatable.

12.4. Aquatic toxicity*

LC50 (orange-red killifish): 33000 mg/l/48h

12.5. Other information*

WGK: 1

* EPA GENETOX PROGRAM 1988, Positive: *Aspergillus-eneuploidy: S cerevisiae* gene conversion



13. Disposal considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules).

14. Transport information

14.1. IATA

Not restricted.

14.2. DOT (Department of Transportation)

Not a Hazardous Material for DOT shipping.

15. Regulatory information

15.1. US regulations

CAA/111 Volat. Org. Comp., Canad. WHMIS IDL 1% conc.*

15.1.1. EPA

CERCLA RQ: not listed

EPCRA TPQ: not listed

15.1.2. OSHA

TQ: not listed

15.2. EU regulations

15.2.1. Symbol

15.2.2. R-phrases

36/37/38

Irritating to eyes, respiratory system and skin.



15.2.3. S-phrases

26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

15.2.4. EC index No.

*Not listed

16. Other information

This information is based on our present knowledge. Its objective is to describe the product from the point of view of safety, and no warranty is made other than its characteristics. This information does not absolve the user in any circumstances from observing other Legislative, Regulatory and Administrative requirements applying to the product, and to safety, hygiene and the well-being of the people in the workplace.



NIPPON GENETICS EUROPE GmbH

Mariaweilerstraße 28-30, 52349 Düren

Amtsgericht Düren HRB 4672,

Bank data UFJ bank Limited: Identification code: 30130700

Account number: 610762

Managing Director: Dr. Jürgen Lünzer, Tatsuji Hata, Kazuo Yamazaki

Value Tax ID: DE 239977252