

Safety Data Sheet

## **SECTION 1: Identification**

1.1. Product identifier

Product name : GFP Lyophilized Biological Material Preparations

Trade names : UV-BioTAG™

#### 1.2. Recommended use and restrictions on use

Used for microbiological quality control.

#### 1.3. Supplier

Microbiologics, Inc. 200 Cooper Avenue North Saint Cloud, MN 56303 +1.320.253.1640

#### 1.4. Emergency telephone number

24 hour Emergency Number: United States: +1.866.928.0789 or +1.215-207-0061 (Carechem)

Canada: +1.800.579.7421 or +1.202.464.2554 (Carechem)

# **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

#### Classification (GHS- CAN/US)

Not classified

#### 2.2. GHS Label elements, including precautionary statements

## **GHS-CAN/US** labeling

No labeling applicable

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity

No data available

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-CAN Classification	GHS-US classification
Phosphoric acid, potassium salt (1:1)	(CAS No) 7778-77-0	15 - 35	Not classified	Not classified
Glucose	(CAS No) 50-99-7	20 - 35	Not classified	Not classified
Skim milk (Bovine - USA origin)	None	15 - 20	Not classified	Not classified
Gelatin	(CAS No) 9000-70-8	15 - 20	Not classified	Not classified
Water	(CAS No) 7732-18-5	7 - 12	Not classified	Not classified
L-Ascorbic acid	(CAS No) 50-81-7	1 - 5	Not classified	Not classified

Full text of hazard classes and H-statements : see section 16

# **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation : Avoid the production of aerosols. If inhalation occurs, move to an area of fresh air and seek

medical advice.

First-aid measures after skin contact : Non-irritant. If skin contact occurs, wash with an appropriate biocidal solution.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If irritation persists, get medical advice/attention.

First-aid measures after ingestion : Avoid hand to mouth contact. If ingested, seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Inhalation of infectious materials may result in infection.

Symptoms/injuries after skin contact : Causes severe skin burns.

SDS.2135.ENG.NA Rev C English Page 1/7 2019.JUN.24

# Safety Data Sheet

Symptoms/injuries after eye contact : Causes severe eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Use suitable extinguishing media for surrounding fire.

Unsuitable extinguishing media : None.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : None. Explosion hazard : None.

#### 5.3. Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Notify all people working in the immediate area of the incident. Do not leave the area unattended (unless you are the only individual in the area). Designate another employee to divert traffic from the incident area. Use disposable gloves, moisture impervious aprons, and other protective clothing must be dictated by the standard operational procedures of each individual laboratory.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

- : Stop the flow of material, if this is without risk.
- : Biohazard Spill Kits are available from commercial sources, or can be made with the following materials:
  - · A bottle of an aqueous germicidal solution
  - · One pair of disposable gloves
  - Forceps
  - · One biohazard bag with closure
  - · One stack or roll of paper towels

Note: A sharps biohazard container should also be available for the collection of any broken material that could cause a cut or puncture wound (e.g. broken glass vial or tube).

#### Procedure:

- 1. After notifying all employees in the immediate area, collect the biohazard spill kit and immediately return to the area.
- 2. Put on the disposable gloves, and any other personal protective equipment as dictated by regulatory requirements or laboratory procedures.
- 3. To avoid injury due to broken material, such as packaging or labware, use the forceps to pick up as much material as possible, and carefully place the materials into the sharps biohazard container.
- 4. Cover area with paper towels to decrease spread of spill and the creation of an aerosol.
- 5. Saturate the spill area with germicidal solution. Keep the spill area moist with the germicidal solution for the appropriate amount of time as indicated on the germicidal solution used.
- 6. Wipe up the area with the paper towels. Place all used paper towels in the biohazard bag.
- 7. Following the cleanup, carefully remove the gloves, and place them into the biohazard bag.
- 8. Seal the biohazard bag.

#### 6.4. Reference to other sections

No additional information available

Safety Data Sheet

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

Proper technologies must be employed to avoid exposure and contact with microorganism growth, and rehydrated pellet suspensions. The microbiology laboratory must be equipped, and have the facilities to receive, process, maintain, store and dispose of biohazard material. The microbiology laboratory personnel using these devices must be trained, experienced, and demonstrate proficiency in processing, maintaining, storing and disposing of biohazard material

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Product must be stored at 2°C-8°C in the original sealed container. Product contains viable microorganisms that may, under certain circumstances, produce disease, or may contain inactivated biological material.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Appropriate engineering controls

: Local exhaust and general ventilation must be adequate to meet exposure standards. Restrict access to the area. Use under the direct supervision of, persons trained and competent in microbiological techniques. Good laboratory practices must be observed and followed.

Hand protection : Wear general protective gloves.

Eye protection : Safety glasses with side shields.

Skin and body protection : Wear moisture impervious aprons and safety footwear.

Respiratory protection : When undertaking procedures that are likely to give rise to infectious aerosols, a Class 1 microbiological biological safety cabinet should be used. If exposure limits are exceeded or

irritation is experienced, NIOSH approved respiratory protection should be worn.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Odor : Odorless

Odor threshold No data available No data available Melting point No data available Freezing point No data available No data available Boiling point Flash point : No data available : No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density No data available Solubility No data available Log Pow No data available Auto-ignition temperature : No data available Decomposition temperature No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic : No data available **Explosion limits** 

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Explosive properties

Oxidizing properties

No additional information available

## 10.2. Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

SDS.2135.ENG.NA Rev C English Page 3/7 2019.JUN.24

No data available

: No data available

# Safety Data Sheet

## 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

Avoid inhalation of infectious aerosols or ingestion.

## 10.5. Incompatible materials

Many chemicals may kill the organism enclosed. There are no additional hazards created by incompatible materials.

# 10.6. Hazardous decomposition products

When stored as directed, the biological material preparations are stable until the last day of the stated month of the expiration date. The length of storage does not affect the risk of infection.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Water (7732-18-5)			
LD50 oral rat	> 90 ml/kg		
L-Ascorbic acid (50-81-7)			
LD50 oral rat	11900 mg/kg		

# Glucose (50-99-7)

LD50 oral rat 25800 mg/kg

# Phosphoric acid, potassium salt (1:1) (7778-77-0)

LD50 oral rat 3200 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated : Not classified

exposure

Aspiration hazard : Not classified

# SECTION 12: Ecological information

## 12.1. Toxicity

Aquatic acute : Not classified Aquatic chronic : Not classified

## 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Ozone : Not classified

Effect on the ozone layer : No additional information available.

 SDS.2135.ENG.NA Rev C
 English
 Page 4/7

Safety Data Sheet

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

Product/Packaging disposal recommendations Dispose of contents/container in accordance with local/regional/national/international

regulations.

# SECTION 14: Transport information

#### **Basic shipping description**

In accordance with TDG

**TDG** 

: UN3373 UN-No. (TDG)

TDG Primary Hazard Classes : 6.2 - Class 6.2 - Infectious Substances

: UN3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2 Transport document description

: BIOLOGICAL SUBSTANCE, CATEGORY B Proper Shipping Name (TDG)

Hazard labels (TDG) : 6.2 - Infectious substances



**TDG Special Provisions** : 38 - A person must not handle, offer for transport or transport these dangerous goods in a large

means of containment if they are in direct contact with the large means of containment.

Explosive Limit and Limited Quantity Index Excepted quantities (TDG) : E0 Passenger Carrying Road Vehicle or Passenger : 4 kg,4L

Carrying Railway Vehicle Index

UN-No. (TDG)

TDG Primary Hazard Classes : 6.2 - Class 6.2 - Infectious Substances

Transport document description : UN2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2

Proper Shipping Name (TDG) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS

· 11N/2814

Hazard labels (TDG) : 6.2 - Infectious substances



**TDG Special Provisions** : 16 - 1) The technical name of the most dangerous substance related to the primary class must be shown, in parentheses, on the shipping document following the shipping name in

accordance with clause 3.5(1)(c)(i)(A) of Part 3, Documentation. The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4, Dangerous Goods Safety

2) subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical: a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example

in Canada is the "Food and Drugs Act".

38 - A person must not handle, offer for transport or transport these dangerous goods in a large means of containment if they are in direct contact with the large means of containment. 84 - The infectious substances identified in subsection 7.1(7) of Part 7, Emergency Response

Assistance Plan, require an emergency response assistance plan.

**ERAP Index** See SP84

Explosive Limit and Limited Quantity Index : 0 Excepted quantities (TDG) : E0

Passenger Carrying Road Vehicle or Passenger : 0.05 kg,0.05 L

Carrying Railway Vehicle Index

SDS.2135.ENG.NA Rev C Page 5/7 English 2019.JUN.24

# Safety Data Sheet

#### 14.2. **Transport information/DOT**

DOT

DOT NA no. : UN3373 UN-No.(DOT) : 3373

Transport document description : UN3373 Biological substance, Category B, 6.2

Proper Shipping Name (DOT) Biological substance, Category B

Contains Statement Field Selection (DOT)

Class (DOT) : 6.2 - Class 6.2 - Infectious substance (etiologic agent) 49 CFR 173.134

Division (DOT) Dangerous for the environment

DOT Special Provisions (49 CFR 172.102) A82 - The quantity limits in columns (9A) and (9B) do not apply to human or animal body parts,

whole organs or whole bodies known to contain or suspected of containing an infectious

substance.

DOT Packaging Exceptions (49 CFR 173.xxx) : 134 DOT Packaging Non Bulk (49 CFR 173.xxx) : 199 DOT Packaging Bulk (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : 4 L or 4 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 4 L or 4 kg

CFR 175.75)

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** 

passenger vessel.

**DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

DOT NA no. : UN2814 UN-No.(DOT) : 2814

**DOT Symbols** G - Identifies PSN requiring a technical name

Transport document description : UN2814 Infectious substances, affecting humans, 6.2

Proper Shipping Name (DOT) : Infectious substances, affecting humans

Contains Statement Field Selection (DOT)

Class (DOT) : 6.2 - Class 6.2 - Infectious substance (etiologic agent) 49 CFR 173.134

Division (DOT) : 6.2

Hazard labels (DOT) : 6.2 - Infectious substance



Dangerous for the environment : No

: A82 - The quantity limits in columns (9A) and (9B) do not apply to human or animal body parts, DOT Special Provisions (49 CFR 172.102)

whole organs or whole bodies known to contain or suspected of containing an infectious

substance.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) : 196 DOT Packaging Bulk (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : 50 mL or 50 g

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 4 L or 4 kg

CFR 175.75)

**DOT Vessel Stowage Location** 

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

: 40 - Stow "clear of living quarters" **DOT Vessel Stowage Other** 

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

SDS.2135.ENG.NA Rev C English Page 6/7 2019.JUN.24

# Safety Data Sheet

# 14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 3373

Proper Shipping Name (IMDG) : BIOLOGICAL SUBSTANCE, CATEGORY B

Transport document description (IMDG) : UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2

Class (IMDG) : 6.2 - Infectious substances

UN-No. (IMDG) : 2814

Proper Shipping Name (IMDG) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS

Transport document description (IMDG) : UN 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2

Class (IMDG) : 6.2 - Infectious substances

**IATA** 

UN-No. (IATA) : 3373

Proper Shipping Name (IATA) : Biological substance, category b

Transport document description (IATA) : UN 3373 Biological substance, category b, 6.2

Class (IATA) : 6.2 - Infectious Substances

UN-No. (IATA) : 2814

Proper Shipping Name (IATA) : Infectious substance, affecting humans

Transport document description (IATA) : UN 2814 Infectious substance, affecting humans, 6.2

Class (IATA) : 6.2 - Infectious Substances

# **SECTION 15: Regulatory information**

# 15.1. Canada National regulations

# Water (7732-18-5)

Listed on the Canadian DSL (Domestic Sustances List)

#### L-Ascorbic acid (50-81-7)

Listed on the Canadian DSL (Domestic Sustances List)

### Gelatin (9000-70-8)

Listed on the Canadian DSL (Domestic Sustances List)

# Glucose (50-99-7)

Listed on the Canadian DSL (Domestic Sustances List)

#### Phosphoric acid, potassium salt (1:1) (7778-77-0)

Listed on the Canadian DSL (Domestic Sustances List)

# 15.2. US Federal regulations

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### L-Ascorbic acid (50-81-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Gelatin (9000-70-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

## Glucose (50-99-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Phosphoric acid, potassium salt (1:1) (7778-77-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

 SDS.2135.ENG.NA Rev C
 English
 Page 7/7