

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

#### 1.1. Product identifier

Product name : GFP Lyophilized Biological Material Preparations  
Trade names : UV-BioTAG™

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Used for microbiological quality control.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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

#### 1.4. Emergency telephone number

24 hour Emergency Number: +44 1865 407333 (Carechem)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid, potassium salt (1:1)	(CAS No) 7778-77-0 (EC no) 231-913-4	15 - 35	Not classified
Glucose	(CAS No) 50-99-7 (EC no) 200-075-1	20 - 35	Not classified
Skim milk (Bovine - USA origin)	None	15 - 20	Not classified
Gelatin	(CAS No) 9000-70-8 (EC no) 232-554-6	15 - 20	Not classified
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	7 - 12	Not classified
L-Ascorbic acid	(CAS No) 50-81-7 (EC no) 200-066-2	1 - 5	Not classified

Full text of R- 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.

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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.
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.
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## 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	: Stop the flow of material, if this is without risk.
Methods for cleaning up	: Biohazard Spill Kits are available from commercial sources, or can be made with the following materials: <ul style="list-style-type: none"><li>• A bottle of an aqueous germicidal solution</li><li>• One pair of disposable gloves</li><li>• Forceps</li><li>• One biohazard bag with closure</li><li>• One stack or roll of paper towels</li></ul>

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

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### 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.

#### 7.3. Specific end use(s)

No additional information available

### 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  
Odour : Odourless.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Solubility : No data available  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

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### 10.2. Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

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

LD50 oral rat	11900 mg/kg
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#### Glucose (50-99-7)

LD50 oral rat	25800 mg/kg
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#### Phosphoric acid, potassium salt (1:1) (7778-77-0)

LD50 oral rat	3200 mg/kg
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Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : 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 exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : 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. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 3373; 2814  
UN-No. (IMDG) : 3373; 2814  
UN-No. (IATA) : 3373; 2814  
UN-No. (ADN) : 3373; 2814  
UN-No. (RID) : 3373; 2814

#### 14.2. UN proper shipping name

##### UN3373

Proper Shipping Name (ADR) : BIOLOGICAL SUBSTANCE, CATEGORY B  
Proper Shipping Name (IMDG) : BIOLOGICAL SUBSTANCE, CATEGORY B  
Proper Shipping Name (IATA) : Biological substance, category b  
Proper Shipping Name (ADN) : BIOLOGICAL SUBSTANCE, CATEGORY B  
Proper Shipping Name (RID) : BIOLOGICAL SUBSTANCE, CATEGORY B  
Transport document description (ADR) : UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2, (-)  
Transport document description (IMDG) : UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2  
Transport document description (IATA) : UN 3373 Biological substance, category b, 6.2  
Transport document description (ADN) : UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2  
Transport document description (RID) : UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2

##### UN2814

Proper Shipping Name (ADR) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS  
Proper Shipping Name (IMDG) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS  
Proper Shipping Name (IATA) : Infectious substance, affecting humans  
Proper Shipping Name (ADN) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS  
Proper Shipping Name (RID) : INFECTIOUS SUBSTANCE, AFFECTING HUMANS  
Transport document description (ADR) : UN 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2, (E)  
Transport document description (IMDG) : UN 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2  
Transport document description (IATA) : UN 2814 Infectious substance, affecting humans, 6.2  
Transport document description (ADN) : UN 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2  
Transport document description (RID) : UN 2814 INFECTIOUS SUBSTANCE, AFFECTING HUMANS, 6.2

#### 14.3. Transport hazard class(es)

##### UN3373 and UN2814

##### ADR

Transport hazard class(es) (ADR) : 6.2  
Hazard labels (ADR) : 6.2



##### IMDG

Transport hazard class(es) (IMDG) : 6.2  
Hazard labels (IMDG) : 6.2



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### IATA

Transport hazard class(es) (IATA) : 6.2  
Hazard labels (IATA) : 6.2



### ADN

Transport hazard class(es) (ADN) : 6.2  
Hazard labels (ADN) : 6.2



### RID

Transport hazard class(es) (RID) : 6.2  
Hazard labels (RID) : 6.2



### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### UN3373

##### - Overland transport

Classification code (ADR) : I4  
Special provision (ADR) : 319  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P650  
Portable tank and bulk container instructions (ADR) : T1  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : L4BH  
Tank special provisions (ADR) : TU15, TU37, TE19  
Vehicle for tank carriage : AT  
Special provisions for carriage - Operation (ADR) : S3

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Hazard identification number (Kemler No.) : 606  
Orange plates :



Tunnel restriction code (ADR) : -  
EAC : 2X

### - Transport by sea

Special provision (IMDG) : 319, 341  
Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P650  
Tank instructions (IMDG) : T1, BK2  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-T  
Stowage category (IMDG) : C  
Stowage and handling (IMDG) : SW2, SW18

### - Air transport

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : See 650  
PCA max net quantity (IATA) : See 650  
CAO packing instructions (IATA) : See 650  
CAO max net quantity (IATA) : See 650  
ERG code (IATA) : 11L

### - Inland waterway transport

Classification code (ADN) : I4  
Special provision (ADN) : 319  
Limited quantities (ADN) : 0  
Excepted quantities (ADN) : E0  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

### - Rail transport

Classification code (RID) : I4  
Special provision (RID) : 319  
Limited quantities (RID) : 0  
Excepted quantities (RID) : E0  
Packing instructions (RID) : P650  
Portable tank and bulk container instructions (RID) : T1  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : L4BH  
Special provisions for RID tanks (RID) : TU15, TU37  
Colis express (express parcels) (RID) : CE14  
Hazard identification number (RID) : 606

### UN 2814

### - Overland transport

Classification code (ADR) : I1  
Special provision (ADR) : 318  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P620

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Mixed packing provisions (ADR)	: MP5
Transport category (ADR)	: 0
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV25, CV26, CV28
Special provisions for carriage - Operation (ADR)	: S3, S9, S15
Tunnel restriction code (ADR)	: E
EAC	: 2X

### - Transport by sea

Special provision (IMDG)	: 318, 341
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P620
Tank instructions (IMDG)	: BK2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-T
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW7

### - Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 620
PCA max net quantity (IATA)	: 50g
CAO packing instructions (IATA)	: 620
CAO max net quantity (IATA)	: 4kg
Special provision (IATA)	: A81, A140
ERG code (IATA)	: 11Y

### - Inland waterway transport

Classification code (ADN)	: I1
Special provision (ADN)	: 318, 802
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### - Rail transport

Classification code (RID)	: I1
Special provision (RID)	: 318
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P620
Mixed packing provisions (RID)	: MP5
Transport category (RID)	: 0
Special provisions for carriage – Packages (RID)	: W9
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW18, CW26, CW28
Colis express (express parcels) (RID)	: CE14
Hazard identification number (RID)	: 606

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions



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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Gelatin is listed

SZW-lijst van mutagene stoffen : Gelatin is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

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*