Safety Data Sheet



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

### 1.1. Product identifier

Product name : Lyophilized or Dried Biological Material Preparations
Product synonym : Charcoal and non-charcoal based Microorganism Products

Trade names : KWIK-STIK™

KWIK-STIK<sup>TM</sup> Plus LYFO-DISK<sup>TM</sup> Epower<sup>TM</sup> Epower<sup>TM</sup> CRM EZ-CFU<sup>TM</sup>

EZ-CFU™ One Step

EZ-PEC<sup>™</sup>
EZ-SPORE<sup>™</sup>
Lab-Elite<sup>™</sup> CRM
EZ-Accu Shot<sup>™</sup>
EZ-Accu Shot<sup>™</sup> Select
EZ-Accu Shot<sup>™</sup> Selective Media
EZ-Accu Shot<sup>™</sup> Starved Cells

### 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

info@microbiologics.com

# 1.4. Emergency telephone number

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

# **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

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

No labeling applicable

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

# 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Gelatin	(CAS-No.) 9000-70-8 (EC-No.) 232-554-6	5 - 60	Not classified
Sucrose	(CAS-No.) 57-50-1 (EC-No.) 200-334-9	0 - 60	Not classified
Glucose	(CAS-No.) 50-99-7 (EC-No.) 200-075-1	0 - 60	Not classified
Phosphoric acid, potassium salt (1:1)	(CAS-No.) 7778-77-0 (EC-No.) 231-913-4	5 - 35	Not classified
Albumins, blood serum	(CAS-No.) 9048-46-8 (EC-No.) 232-936-2	10 - 30	Not classified
Skim milk (Bovine - USA origin)	None	2 - 20	Not classified
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	1 - 10	Not classified
L-Ascorbic acid	(CAS-No.) 50-81-7 (EC-No.) 200-066-2	1 - 5	Not classified
Carbon	(CAS-No.) 7440-44-0 (EC-No.) 231-153-3	0 - 5	Not classified

### **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 (acute and delayed)

Symptoms/injuries after inhalation : Inhalation of infectious materials may result in infection. Symptoms/injuries after skin contact : None anticipated under normal product use conditions.

Symptoms/injuries after eye contact : Contact with eyes may cause infection.

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

# $\textbf{4.3.} \ \textbf{Indication of any immediate medical attention and special treatment needed}$

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.

Hazardous decomposition products in case of fire : Not determined.

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.

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### 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:
- 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

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

: Proper techniques must be employed to avoid exposure and contact with microorganism growth, and rehydrated pellet suspensions. 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

: The viable biological material preparation must be stored at 2°C - 8°C in the original sealed container. The microbiology laboratory must be equipped, and have the facilities to receive, process, maintain, store and dispose of biohazard material.

: Not determined

### 7.3. Specific end use(s)

Incompatible materials

Used for microbiological quality control.

### SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Sucrose (57-50-1)				
Belgium	Limit value (mg/m³)	10 mg/m³		
Bulgaria	OEL TWA (mg/m³)	10 mg/m³ (dust, inhalable fraction)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³		
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	20 mg/m³		
Estonia	OEL TWA (mg/m³)	10 mg/m³		
France	VME (mg/m³)	10 mg/m³		

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Sucrose (57-50-1)				
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³		
Ireland	OEL (15 min ref) (mg/m3)	20 mg/m³		
Latvia	OEL TWA (mg/m³)	5 mg/m³ (dust)		
Lithuania	IPRV (mg/m³)	10 mg/m³		
Portugal	OEL TWA (mg/m³)	10 mg/m³		
Slovakia	NPHV (priemerná) (mg/m³)	6 mg/m³ (total aerosol)		
Spain	VLA-ED (mg/m³)	10 mg/m³		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³		
United Kingdom	WEL STEL (mg/m³)	20 mg/m³		
Australia	TWA (mg/m³)	10 mg/m³ (containing no asbestos and <1% crystal- line silica-inhalable dust)		
Canada (Quebec)	VEMP (mg/m³)	10 mg/m³		
USA - ACGIH	ACGIH TWA (mg/m³)	10 mg/m³		
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)		
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)		
Carbon (7440-44-0)				
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust with <1% Quartz, respirable fraction)		
Austria	MAK Short time value (mg/m³)	10 mg/m³ (alveolar dust with <1% Quartz, respirable fraction)		
Poland	NDS (mg/m³)	4 mg/m³ (natural-inhalable fraction) 1 mg/m³ (natural-respirable fraction) 6 mg/m³ (synthetic-inhalable fraction)		

# 8.2. Exposure controls

Log Pow

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

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.

Thermal hazards

: No additional information available

Environmental exposure controls : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Freeze dried pellet

Odor : Odorless

Odor threshold No data available рΗ No data available Melting point No data available No data available Freezing point Boiling point No data available Flash point No data available Relative evaporation rate (butyl acetate=1) No data available 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 Miscible

No data available

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Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic No data available No data available Viscosity, dynamic Explosion limits No data available Explosive properties : No data available Oxidizing properties No data available Particle characteristics : Not applicable

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 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	
Glucose (50-99-7)		
LD50 oral rat	25800 mg/kg	
Phosphoric acid, potassium salt (1:1) (7778-77-0)		
LD50 oral rat	29700 mg/kg	
Sucrose (57-50-1)		
LD50 oral rat	29700 mg/kg	
Carbon (7440-44-0)		
LD50 oral rat	> 10000 mg/kg	
L-Ascorbic acid (50-81-7)		
LD50 oral rat	11900 mg/kg	

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
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 exposure : Not classified
Aspiration hazard : Not classified

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### 11.2. Information on other hazards

Endocrine disrupting properties

Potential adverse human health effects and

symptoms

No additional information availableNo additional information available

# SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic acute : Not classified Aquatic chronic : Not classified

### 12.2. Persistence and degradability

No additional information on components is available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information on components is available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### **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

Most Microbiologics microorganism strains ship according to UN classification UN3373. However, there are several Microbiologics microorganism strains which ship according to UN classification UN2814.

Visit www.microbiologics.com to obtain technical information bulletin TIB.2023 for most up to date information regarding UN2814 strains.

# 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

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 English
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# Safety Data Sheet

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

**D** 

IMDG

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



IATA

Transport hazard class(es) (ADR) : 6.2 Hazard labels (ADR) : 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 applicablePacking group (IMDG): Not applicablePacking group (IATA): Not applicablePacking group (ADN): Not applicablePacking 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

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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 : TP1

provisions (ADR)

Tank code (ADR) : L4BH

Tank special provisions (ADR) : TU15, TU37, TE19

Vehicle for tank carriage : AT Special provisions for carriage - Operation (ADR) : S3 Hazard identification number (Kemler No.) : 606

Orange plates

606 3373

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) 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) : F0 : Forbidden PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : See 650 PCA max net quantity (IATA) See 650 See 650 CAO packing instructions (IATA) 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 : TP1

provisions (RID)

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

# Safety Data Sheet

### **UN 2814**

### - Overland transport

Classification code (ADR) : I1
Special provision (ADR) : 318
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P620
Mixed packing provisions (ADR) : MP5
Transport category (ADR) : 0

Special provisions for carriage - Loading, : CV13, CV25, CV26, CV28

unloading and handling (ADR)

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

### - Air transport

PCA Excepted quantities (IATA) : E0 : Forbidden PCA Limited quantities (IATA) 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, : CW13, CW18, CW26, CW28

unloading and handling (RID)

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

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# **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

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV,

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (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

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed : None of the components are listed

: None of the components are listed

# 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

No additional information available

Revisions to this SDS document can be presented upon request.

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