

Safety Data Sheet

### **SECTION 1: Identification**

1.1. Product identifier

Product name : Enumerated Mycoplasma

Product synonym : Frozen Liquid based Microorganism Product

Trade name : Enumerated Mycoplasma

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

Use of the substance/mixture : 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
Glucose Broth	None	66.66	Not classified	Not classified
Phosphate Buffered Saline	None	26.67	Not classified	Not classified
Glycerin	(CAS-No.) 56-81-5	6.67	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 : 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.

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

No additional information available

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### **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.
- 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 baq.
- 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

### **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 liquid suspensions. The microbiology laboratory personnel using this device 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 -80°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.

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### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Glycerin (56-81-5)		
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (mist, total particulate) 5 mg/m³ (mist, respirable fraction)
Canada (Quebec)	VEMP (mg/m³)	10 mg/m³ (mist)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (mist)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (mist)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (mist)
Nunavut	OEL STEL (mg/m³)	20 mg/m³ (mist)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (mist)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (mist)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (mist)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (mist)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (mist)
Yukon	OEL TWA (mg/m³)	30 mppcf (mist) 10 mg/m³ (mist)

#### 8.2. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection : protective gloves. Eye protection : Safety glasses.

Skin and body protection : Wear suitable working clothes.

Respiratory protection : 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 : Liquid

Color : Orange-red, clear

Odor : Odorless

Odor threshold No data available pН No data available No data available Melting point Freezing point No data available No data available Boiling point No data available Flash point 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 No data available Log Pow No data available Auto-ignition temperature No data available : No data available Decomposition temperature Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosion limits** No data available No data available Explosive properties Oxidizing properties 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 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

Glycerin (56-81-5)		
LD50 oral rat	12600 mg/kg	
LD50 dermal rabbit	> 10 g/kg	
LC50 inhalation rat (mg/l)	> 570 mg/m³ (Exposure time: 1 h)	

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

: Not classified

Specific target organ toxicity - repeated

exposure

Aspiration hazard : Not classified

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Aquatic acute : Not classified Aquatic chronic : Not classified

Glycerin (56-81-5)		
LC50 fish 1	51 - 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
BCF fish 1	(no bioaccumulation)	
Log Pow	-1.76	

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Glycerin (56-81-5)		
BCF fish 1	(no bioaccumulation)	
Log Pow	-1.76	

### 12.4. Mobility in soil

Glycerin (56-81-5)	
Log Pow	-1.76

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### 12.5. Other adverse effects

Ozone : Not classified

Effect on the ozone layer : No additional information available.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

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

regulations.

### **SECTION 14: Transport information**

Most Microbiologics microorganism strains ship according to UN classification UN3373. However, there are several Microbiologics microorganism strains which ship according to UN classification UN2814. The following catalog numbers ship per UN2814.

Microbiologics Catalog Number	Reference Collection Number	Microorganism Name
0231	ATCC® 700728™	Escherichia coli (serotype O157:H7)
0617	ATCC® 35150™	Escherichia coli (serotype O157:H7)
0861	NCTC 12900	Escherichia coli (serotype O157:H7)
01062	NCTC 8622	Escherichia coli (serovar O126:K71(B16):H2)
01097	CDC 99-3311	Escherichia coli (serotype O145:NM)
01098	CDC 00-3039	Escherichia coli (serotype O45:H2)
01099	CDC 02-3211	Escherichia coli (serotype 0121:H19)
01100	CDC 03-3014	Escherichia coli (serotype O26:H11)
01101	CDC 06-3008	Escherichia coli (serotype O103:H11)
01102	CDC 2010C-3114	Escherichia coli (serotype O111:H8)
01104	ATCC® BAA-2326™	Escherichia coli (serotype O104:H4)

See product label to determine catalog number and organism name.

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

### 14.1. Basic shipping description

In accordance with TDG

**TDG** 

UN-No. (TDG) : UN3373

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

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

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

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 : 0

Excepted quantities (TDG) : E0

Passenger Carrying Road Vehicle or Passenger : 4 kg,4L

Carrying Railway Vehicle Index

UN-No. (TDG) : UN2814

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

Hazard labels (TDG) : 6.2 - Infectious substances



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**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

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

### 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) 6.2 Dangerous for the environment : No

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 158

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

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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

DOT Packaging Exceptions (49 CFR 173.xxx) 134 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.

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

Emergency Response Guide (ERG) Number : 158

Other information : No supplementary information available.

#### Air and sea transport 14.3.

#### **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

: 2814 UN-No. (IMDG)

Proper Shipping Name (IMDG) INFECTIOUS SUBSTANCE, AFFECTING HUMANS

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

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

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

Class (IATA) 6.2 - Infectious Substances

### SECTION 15: Regulatory information

### 15.1. Canada National regulations

No additional information available

### Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. US Federal regulations

### Glycerin (56-81-5)

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

### 15.3. US State regulations

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### Glycerin (56-81-5)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

## **SECTION 16: Other information**

No data available

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.