



Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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EMERGENCY CONTACT
1-800-424-9300 (Chemtrec)
Or Contact Your Local
Poison Control Center

Product Number: Various

Product Name: LyfoCults®, LyfoCults® Plus, LyfoCults® Plus Quant

Product Description: Individually lyophilized quality control microorganisms derived from ATCC® cultures used for quality control. Rehydration media is 0.45% saline.

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Infectious substance. Observe biosafety procedures when handling. Contact may cause irritation and other harmful effects. Harmful if inhaled, swallowed or in contact with skin. Do not get in eyes, on skin or clothing. Keep containers closed.

US OSHA Classification (29CFR1910.1200): Toxic, Irritant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	COMPONENT	PERCENTAGE
68-11-1	Thioglycolate	Not Available
56-81-5	Glycerin	Not Available
Not assigned	Lyophilized Microorganisms	Not Available

See Section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

Inhalation: Immediately remove the victim to fresh air. If breathing has stopped administer artificial respiration. Get immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Wash thoroughly with soap and water. Get medical attention if irritation or other symptoms develop. If product contacts broken skin, seek immediate medical attention.

Eye Contact: Immediately flush the eyes with large amounts of water for at least 15 minutes while holding the eyelids open to assure that the entire surface is flushed. Get immediate medical attention.

Ingestion: Immediately call poison control and follow their instructions. Do not give anything by mouth. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use any media appropriate for the surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Products: Oxides of carbon, sulfur and nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

If hydration has occurred, immediately notify all employees in the area. Wear protective equipment (gloves, apron and safety goggles). Cover the area with paper towels then saturate them with a germicidal agent such as 10% bleach solution or commercial germicide to inactivate infectious agents. Allow to stand for at least 15 minutes. Dispose as biohazardous waste. If appropriate, autoclave all items in contact with microorganisms.

SECTION 7: HANDLING AND STORAGE

Follow the directions on the package insert. Follow good laboratory practices of avoiding contact (breathing, touching, smoking, etc.) with a laboratory reagent. Prevent contact with the skin and eyes. Avoid the generation of aerosols. Observe CDC/NIH biosafety precautions in handling. The use and handling of infectious materials should be supervised by a knowledgeable microbiologist trained in good laboratory practices.

Follow storage instructions on the product label. Store unopened at 2-8°C.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	Exposure Limits
Thioglycolate	1 ppm skin TWA ACGIH TLV
Glycerin	10 mg/m ³ TWA (as mist) ACGIH TLV 5 mg/m ³ TWA (respirable), 15 mg/m ³ TWA (total dust) OSHA PEL

Ventilation: The use of biological safety cabinets is highly recommended.

Respiratory Protection: If needed, use a NIOSH approved respirator.

Gloves: Powderless disposable latex or nitrile gloves recommended.

Eye Protection: Standard laboratory safety glasses.

Other Protective Equipment/Clothing: Protective clothing and equipment as needed to avoid skin and clothing contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Microorganisms – Off-white lyophilized solids. Rehydration fluid – colorless aqueous solution.

pH: Rehydration Fluid - 7	Boiling Point: Not applicable
Vapor Pressure: Not applicable	Melting Point: Not applicable
Vapor Density: Not applicable	Percent Volatile: Not applicable
Evaporation Rate: Not applicable	Specific Gravity: Not determined
Water Solubility: All are soluble	Coefficient of Oil/Water: Not determined
Flash Point: None	Autoignition Temp: None
Flammability Limits: LEL: Not Applicable UEL: Not Applicable	

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid heat.

Incompatibility: None known.

Hazardous Decomposition Products: Thermal decomposition may generate oxides of sulfur, nitrogen and carbon.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

WARNING! Infectious substance. These products contain viable infectious organisms of moderate risk to personnel and the environment. Inhalation, ingestion or contact may result in disease. Observe biosafety procedures when handling.

Inhalation: Inhalation of dust or mists may cause respiratory irritation and possible systemic effects.

Skin Contact: Contact may cause irritation. Thioglycolate may be harmful if absorbed through the skin.

Eye Contact: Contact may cause moderate to severe irritation. Eye injury is possible.

Ingestion: May cause gastrointestinal irritation and other adverse effects. Thioglycolate is toxic by ingestion and may cause nausea, vomiting, shortness of breath, and collapse.

Chronic Health Hazards: None currently known.

Carcinogen Status: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Medical Conditions Aggravated by Exposure: None currently known.

Acute Toxicity Values:

Glycerin: LD50 oral rat 12.6 g/kg; LD50 skin rabbit >10 g/kg.

Thioglycolate: LD50 oral rat 114 mg/kg; LD50 skin rabbit 300 mg/kg; LC50 inhalation rat 0.21 mg/L/4 hr.

SECTION 12: ECOLOGICAL INFORMATION

No data is available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of product in accordance with all local, state/provincial and federal regulations for biohazardous materials.

Container Disposal: Empty containers should be collected for proper disposal as biohazardous waste.

SECTION 14: TRANSPORT INFORMATION

Shipping Description: UN3373, Biological substance category B, 6.2

SECTION 15: REGULATORY INFORMATION

SARA 311/312: Hazard Categories for SARA 311/312 Reporting: Acute health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Section 313(40 CFR372): None

CERCLA Section 103 Reportable Quantity: This product is not subject to CERCLA releases reporting. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65: This product contains the following substances known to the State of California to cause cancer and/or reproductive harm: None known.

Canada WHMIS Classification: Class D-1-B, D-2-B, D-3.

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

NFPA Hazard Rating: Health: 2 Fire: 1 Reactivity: 0

Revision History:

09/28/2010: New MSDS

The above information is believed to be correct as of the date of this sheet but does not purport to be all inclusive and shall be used only as a guide. Since the use of this information and the conditions of use of the product are not within the control of bioMérieux S.A. nor bioMérieux, Inc., it is the user's obligation to assure safe use of this product.