



MATERIAL SAFETY DATA SHEET

1 Product and Company Identification

Product name/ **Biolog Phenotype MicroArray MicroPlates**

Product number:

12221	PM21	-Yeast-Filamentous Fungi chemical sensitivity assay
12222	PM22	-Yeast-Filamentous Fungi chemical sensitivity assay
12223	PM23	-Yeast-Filamentous Fungi chemical sensitivity assay
12224	PM24	-Yeast-Filamentous Fungi chemical sensitivity assay
12225	PM25	-Yeast-Filamentous Fungi chemical sensitivity assay

Manufacturer/Supplier: Biolog Inc.
21124 Cabot Blvd.
Hayward, CA 94545
Telephone: 1-510-785-2564

Information department: Technical services.

Emergency information: In case of a chemical emergency, spill, fire, exposure, or accident contact Biolog Inc. at 1-510-785-2564 or 1-800-284-4949

2 Composition/Information

Chemical characterization:

Description: Dow Polystyrene (CAS# 9003-53-6 0) with minute amounts of chemicals dried on the surface of wells (chambers).

3 Hazards Identification

Hazard description: This product contains no hazardous constituents, or the concentrations of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communications Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.

Classification system: This classification was made based on information gathered from company and literature data.

NFPA ratings (scale 0-4)



Health = 0
Fire = 1
Reactivity = 0

4 First aid measures

General information

No special measures required.

After inhalation

Seek medical treatment in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

If symptoms persist consult doctor.

Information for doctor

Show this MSDS.

5 Fire fighting measures

Hazardous products of combustion

Carbon oxides (CO, CO₂)monoxide, soot.

Suitable extinguishing agents

CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment

Autoignition temperature of polystyrene: 427C (800.6F)

Wear MSHA/NIOSH approved self-contained breath apparatus or equivalent and full protective gear.

6 Accidental release measures

Person-related safety precautions

None required.

Measures for environmental protection

Wipe up with damp sponge or mop spills.

Measures for cleaning/collecting

No special measures required.

Additional information

No dangerous substances are releases.

7 Handling and storage

Handling

Information on safe handling

No special measures required.

Information about protection against explosions and fires

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

2- 8 °C in the dark in dessicated packages

Information about storage in one common storage facility

No special measures required.

8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace

No component of this product present at levels greater than or equal to 0.1% requiring occupational exposure limit values.

Personal protective equipment

General protective and hygienic measures

Use usual precautionary measures for handling chemicals.

Breathing equipment

None required.

Protection of hands

Chemical resistant gloves (i.e. nitrile, or equivalent)

Eye protection

Safety glasses

Body protection

Protective work clothing (lab coat)

9 Physical and chemical properties

General Information

Form

Polystyrene MicroPlate containing dried chemicals

Specific gravity

Not determined

Density

Not determined

Evaporation rate

Not determined

Boiling point/ Freezing point

Not determined

Solubility in/ Miscibility with Water

Chemicals Soluble

10 Stability and reactivity

Stability

Stable

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications.

Hazardous decompositions products

Hazardous polymerization

Carbon oxides (CO, CO₂)monoxide

Will not occur.

11 Toxicological information

Acute toxicity	Not determined.
Primary irritant effect	
On the skin	Reconstituted chemicals may cause irritation.
On the eye	Reconstituted chemicals may cause irritation.
Sensitization	No sensitizing effects known
Additional toxicological information	
Carcinogenicity	These products contains components that have been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human developmental toxicant.

12 Ecological information

Ecological effects	Have not been thoroughly investigated, but currently none have been identified.
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13 Disposal considerations

Product Recommendation:	Can be disposed of with solid waste. Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered RCRA hazardous waste.
Uncleaned package Recommendation:	Disposal must be made according to state and federal regulations.
Recommended cleaning Agent:	Water, if necessary with cleaning agents.

14 Transportation information

DOT	Considered to be non-hazardous for transport.
IATA	Considered to be non-hazardous for air transport.

15 Regulatory information

United States regulatory information	
SARA Listed	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
Canada regulatory information	
WHMIS classification	Classified in accordance with the hazard criteria of the CPR, and the MSDS contains all information required by the CPR.
DSL	No
NDSL	No
California Proposition 65 – Chemicals known to cause cancer	
	PM21D Thiourea 62-56-6
	PM22C 3-Amino-1,2,4-triazole 61-82-5
	Azaserine 115-02-6
	PM24B Cisplatin 15663-27-1
	PM25B Mechlorethamine Hydrochloride 55-86-7

California Proposition 65 - Chemicals known to cause reproductive toxicity

PM21D Neomycin Sulfate 1405-10-3

PM22C Cycloheximide 66-81-9

Myclobutanil 88671-89-0

PM23A Doxycycline Hyclate 24390-14-51

PM25B Hydroxyurea 127-07-1

Clomiphene Citrate 50-41-9

5-Fluoruracil 51-21-8

16 Other information

The information, data, and recommendations contained herein are believed to be accurate. Biolog, Inc. makes no warranty of any kind whatever with respect thereto and disclaims all liability from reliance thereon. We reserve the right to revise this MSDS periodically as new information becomes available.

MS PM 21 - 25 MicroPlates: 12221; 12222 ; 12223; 12224; 12225

Date: 19 OCT 2010