

55-PLUS MONITOR MF-Type Filter Unit

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION and of THE COMPANY/UNDERTAKING - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identification of the substance or preparation

Trade Name **55-PLUS MONITOR MF-Type Filter Unit**

Catalogue Numbers JBRMHWG05505, JBRMHBG05505, JBRMABG05505.

Chemical Name: Polystyrene funnel with lid, containing a gridded MF-type membrane bonded to an AP10 absorbent pad.

Product Use: A disposable filtration unit designed to recover microorganisms in beverages and in-process water.

Other trade names and synonyms 55-Plus monitor

Manufacturer/Distributor:	Millipore Corporation (Corporate Headquarters)	Millipore S.A.S. (European Headquarters)
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CHEMTREC Emergency Telephone Number:

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MSDS/SDS Number:	M102161
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Revision:	A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	Symbol letters*	R-phrases**
Membrane Composition: (White or black membrane with underside PVA hot melt adhesive coating)					
Nitrocellulose (Pyroxylin)*	Unlisted	9004-70-0	80-100	F	R 11
Cellulose acetate	Unlisted	9004-35-7	0-20	None	None
Polyvinyl acetate (PVA)	203-545-4	9003-20-7	<5	None	None
*The nitrogen content of the nitrocellulose does not exceed 12.6 percent on a dry weight basis					
Structural Components					
Polystyrene sample funnel, support base and lid	Unlisted	9003-70-7, 9003-53-6	60-80	None	None
Cellulose (Millipore AP-10) absorbent pad	232-674-9	9004-34-6	20-30	None	None
Polyethylene (PE), medium density outlet plug	Unlisted	9002-88-4	<5	None	None
Polyvinyl chloride monitor connector	Unlisted	9002-86-2	<5	None	None
* Symbol letters and categories of danger: T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, E = Explosive, F+ = Extremely flammable, F = Very flammable, N = Dangerous for the environment, O = Oxidising. ** The full text of each phrase is listed in Section 16.					

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW	
Appearance:	Mixed cellulose ester membrane (white or black) bonded to a white cellulose pad in a clear, transparent polystyrene body with lid..
Classification:	This product is not classified as dangerous according to Directive 1999/45/EC.
Adverse human health effects	No adverse human health effects are expected from exposure to the intact product or any of its components.
<u>Route of Entry</u>	<u>Potential Health Effects and Symptoms of Exposure</u>
Eyes: Ingestion Inhalation Short Term Exposure Long Term Exposure Skin:	} The integral, non-volatile nature of this product makes injury by ingestion, inhalation or eye contact unlikely. The components of this product are not known to be skin irritants or to cause contact dermatitis.
Target Organs:	None known by contact
Medical conditions aggravated by exposure:	None known by contact
Adverse environmental effects:	The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.
Adverse physicochemical effects:	Under normal operating temperature and pressure conditions, these devices do not present a physical hazard. The dry membrane is a fire hazard.

SECTION 4 - FIRST AID MEASURES

Eyes:	If an impact injury occurs, seek medical attention immediately.
Ingestion:	Accidental ingestion of this product is improbable.
Inhalation:	This product does not contain any volatile components capable of being inhaled.
Skin:	If skin irritation should occur, wash with soap and water. Seek medical attention if a rash occurs, or if redness or irritation persists.

SECTION 5 - FIRE FIGHTING MEASURES

Flash ignition Temperature	Mixed Cellulose Ester membrane	Not known
	Polystyrene	350 °C
	Cellulose	210 °C
Autoignition Temperature (ASTM D1929).	Mixed Cellulose Ester membrane	130°C minimum, determined on dry, aged membrane.
	Polystyrene	490°C
	Cellulose	400 °C
Suitable extinguishing media:	Water spray, dry chemical, carbon dioxide, or foam type media are acceptable. Use the extinguishing media most suited to the surrounding fire.	
Unsuitable extinguishing media:	None found.	
Special protective equipment for fire fighters:	Standard turn-out gear and full face self contained breathing apparatus to protect from toxic products of combustion..	
Special exposure hazards:	Do not approach from the lee side if not fully protected as above. Under fire conditions, toxic carbon and nitrogen containing compounds will be emitted. See section 10.	

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	This product is shipped dry, without preservatives. The materials of construction of this product pose no health hazards. Personal precautions will be determined by the nature of the fluids being processed, if other than water.
Small Spills:	Clean-up according to the nature of the fluid being processed.
Large Spills:	Same as for small spill.
Environmental precautions	The materials of construction do not pose an environmental hazard.
Clean up measures:	Collect fragments for disposal as described in Section 13. Absorb processed fluids in a manner consistent with their hazards.

SECTION 7- HANDLING AND STORAGE**Handling:**

Handle with care to maintain the integrity and cleanliness of the filter unit

Storage

Store in a cool, dry place.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Specific Protection	Normal Handling Conditions	Emergency Response Conditions
Respiratory protection	None required	The personal protective equipment required will be determined by the nature of the fluid being processed.
Ventilation	General room ventilation	
Eye protection	Safety glass with side shields	
Skin protection	None required	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Mixed cellulose ester membrane	Polystyrene	Cellulose
Appearance:	Porous white solid	Clear, transparent solid	Non-woven white solid
Odour:	Faint, sharp acidic	Very faint odor	None
Odour threshold:	0.3 to 1.0 ppm (nitric oxide)	0.14 -0.32 ppm (styrene)	Not available
pH (2% aqueous solution):	Not applicable	Not applicable	Not applicable
Melting point (ASTM D3418):	Decomposes upon heating	240°C	Decomposes without melting
Boiling point	Decomposes upon heating	Decomposes	Decomposes
Flash point:	Not known	350°C	210°C
Explosive properties:	May be explosive if strongly heated in a confined enclosure	None as a bulk solid	None as a bulk solid
Oxidising properties:	None	None	None
Vapor pressure, 20 °C:	Not available	Not available	Not available
Specific Gravity (Water = 1.0):	0.4 - 0.7	1.05 (polymer powder)	Approx. 0.9
Water solubility, 20 °C:	Insoluble	Insoluble	Insoluble
Vapor Density, 20 °C., grams/m ³	Not applicable	Not applicable	Not applicable
Viscosity, centipoise.	Not applicable	Not applicable	Not applicable
Partition coefficient: n-octanol/water	Not available	Not available	Not available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Conditions to avoid	Temperatures above 55°C, flames, sparks, other sources of ignition and contact with incompatible materials
Incompatible with:	Oxidizing agents
Hazardous Decomposition Products: The nature and concentration of various decomposition and combustion products that will result from heating of these polymers will vary depending upon variables such as temperature, oxygen and water vapor concentration, and the presence of other materials. The possible products, include, but are not limited to those shown below:	
Nitrocellulose/Cellulose Acetate on polyester composite membrane	Oxides of carbon and nitrogen
Polystyrene	Carbon monoxide, carbon dioxide smoke and aromatic hydrocarbons.
Cellulose	Carbon monoxide and carbon dioxide.
Hazardous Polymerization	Has not been reported for any components.

SECTION 11 - TOXICOLOGICAL INFORMATION

Dangerous to health effects and symptoms relating to:

Inhalation:	This product does not pose an inhalation health hazard.
Ingestion:	This product does not pose an ingestion health hazard.
Skin contact:	This intact product does not pose a skin contact health hazard.
Eye contact:	This product does not pose an eye injury hazard.
Carcinogenicity:	None of the components of this product are listed as carcinogen by IARC, ACGIH, OSHA, NTP or NIOSH.
Chronic toxicity	No adverse health effects are expected from prolonged or repeated exposure to this product.
<u>Toxicology Data</u>	No toxicological data is available for this product as an entity.
Selected RTECS data for components	
Nitrocellulose: (100%)	RTECS#: QW097000
LD ₅₀ ,oral, mouse	>5 gm/kg
LD ₅₀ ,oral, rat	>5 gm/kg
Cellulose Acetate (100%)	RTECS#: Not Listed
LD ₅₀ , Oral, Rat	>3.2 gm/kg Data: Van Waters & Rogers

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Because of the very limited solubility of these polymers in nature waters, this product is expected to have insignificant toxic effects on aquatic flora and fauna.

Environmental Fate:

The components of this product will exhibit very limited biodegradability in contact with soils or natural waters. This product will remain essentially unchanged in the environmental for a period of time estimated to be well in excess of one year.

SECTION 13- DISPOSAL INFORMATION

The 55 Plus Monitor should be used only for its intended application; which is the recovery of microorganisms from water and beverages. Application of this product to other substances is not recommended. However, in the event that this device has been used for other substances, the user must consult their regulatory organization to ensure disposal in an appropriate manner.

European Union:

When disposal is required, this product should be considered according to the European Waste catalogue (European commission decision of 03/05/01 modifying directives 94/3/CE and 75/442/CE) as part of the following category: **16 03 05* organic wastes containing dangerous substances**

United States:

Although nitrocellulose and nitrocellulose/cellulose acetate membranes are not US Environmental Protection Agency RCRA Hazardous Wastes, they may be regulated in some jurisdictions. Consult local or state authorities as to regulatory status. Membranes, separated from device and pad are United States Department of Transportation Hazardous Materials. Transport and dispose in accordance with all federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

The transportation of this product is not regulated by IMDG (sea), ADR (road), RID (rail), ICAO/IATA (air), or USDOT as a dangerous goods or hazardous material.

SECTION 15 - REGULATORY INFORMATION

Australia:

Hazchem Code:	None applicable
Poisons Schedule Number	None applicable

California:

No Significant Risk Level: None of the substances in this product are listed.

Canada

As a manufactured article, formed to a specific shape, that will not expose people to a controlled product under normal conditions of use, this product is exempt from classification under WHMIS regulations.

European Union:

Label health, safety and environmental information (Directives: 67/548/EEC and 1999/45/EC)

Symbols:	None applicable
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Category of danger	None applicable
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Risk phrases	None applicable
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Safety phrases:	None applicable
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OECD/High Production Volume (HPV) chemicals: None of the components of this product are listed as a high production volume chemicals.

Japan

None of the components of this product are listed under the Poisonous and Deleterious Substances Control Law.

United Kingdom:

Control of Substances Hazardous to Health Regulations 2002 (COSHH) Rating: L (low)

United States

Toxic Substances Control Act: All components of this product are listed on the Toxic Substances Control Act chemical inventory or are covered by the polymer exemption.

Occupational Exposure Limits

Exposure limits have not been established for any components in this product.

SECTION 16- ADDITIONAL INFORMATION

Risk phrases referred to under Section 2:	R 11	Highly flammable
Abbreviations used:		
ACGIH	American Conference of Government Industrial Hygienists	
ADR	European agreement on the international carriage of dangerous goods on road	
CAS	Chemical Abstract Service	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EPA	United States Environmental Protection Agency	
IARC	International Agency for Research in Cancer.	
IATA	International Air Transport Association	
ICAO	International Civil Aviation Organization	
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization.	
KZG-W	Short term exposure limit (Switzerland)	
LC ₅₀	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population	
LD ₅₀	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.	
LTEL	Long Term Exposure Limit (8 hr) (United Kingdom)	
MAC	Maximum Concentration Value (Poland)	
MAC-TGG	Occupational exposure limit, 8 hr. time weight average (The Netherlands)	
MAK	Maximum Concentration Values in the Workplace (Austria, Germany)	
MAK-W	Occupational exposure limit, 8 hr. time weight average (Switzerland)	
MFSU	Manufacture, Formulation, Supply and Use (Section 13)	
NGV	8 hours time weighted average exposure limit (Sweden)	
NIOSH	National Institute of Occupational Safety and Health (US)	
NTP	National Toxicology Program (US)	
OSHA	United States Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit (US)	
RID	International regulations concerning the international carriage of dangerous goods by rail.	
RTECS	Registry of Toxic Effects of Chemical Substances (US)	
STEL	Short term exposure limit (15 minute)	
TGV	15 minute short term exposure limit (Sweden)	
TLV	Threshold Limit Value	
WHMIS	Workplace Hazardous Materials Information System (Canada)	
This safety data sheet has been prepared to comply with the requirements of European Union Directive 2001/58/EC and ANSI Z400.1-1998.		
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