



Material Safety Data Sheet

MSDS/SDS Number: 00000145MSDS
Latest Revision Date: March 2, 2010
Revision: D

SECTION 1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: M AIR T[®] Cassette pre-filled with TSA medium.
Catalogue Number(s): See Section 16.
Chemical Name: Aqueous solution of Agar, Sodium Chloride, and Proprietary Components.
Synonyms: M Air T[®] Cassette, pre-filled with Tryptic Soy Agar (TSA) medium.
Intended Product Use: Nutrient medium (pancreatic digests of casein and soymeal, agar, and sodium chloride), for use in analyzing microbial air contamination intended for Research Use Only.

Manufacturer/Distributor: Millipore Corporation (Corporate Headquarters) Millipore S.A.S. (European Headquarters)
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SECTION 2 HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Labeling of Chemicals (GHS):

Symbol: **Hazard Category:** *None Applicable.*
No Symbol **Signal Word:** *None Applicable.*
Hazard Statement: *None Applicable.*

GHS Precautionary Statements:

Prevention: P281: Use personal protective equipment as required.
Response: P308+P313: If exposed or concerned: Get medical advice/attention.
Storage: P403+P233: Store in a well ventilated place. Keep container tightly closed.

Disposal: P501: Dispose of content/container in accordance with local regulations.

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH):

Symbol: **Symbol Letter:** *None Applicable.*
Hazard: *None Applicable.*
No Symbol
Risk Phrase: *None Applicable.*

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Identification of Dangerous Components: This product contains the substances listed below, which are defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Dangerous Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	EU Hazard Symbol Letters*†	R Phrases** †
Sodium Chloride:	231-598-3	7647-14-5	< 1 %	N/A	N/A
Agar:	232-658-1	9002-18-0	< 2 %	N/A	N/A

Identification of Components Not Classified as Dangerous: This product contains the substances listed below, which are not defined as dangerous substances or hazardous chemicals as defined in European Community Directives 67/548/EEC or 1999/45/EC, and Hazard Communication Standard 29 CFR 1910.1200.

Non-Dangerous Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	EU Hazard Symbol Letters *	R Phrases**
Proprietary Components:	Not Available	Not Available	1 %	N/A	N/A
Water:	231-791-2	7732-18-5	96 %	N/A	N/A

* 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 R phrase is listed in Section 2.

† Symbols letters and R Phrases are assigned to each dangerous component for the highest concentration range as defined in 67/548/EEC and 1999/45/EC.

SECTION 4 FIRST AID MEASURES

	Treatment Measures:	Symptoms of Exposure:
Contact with Eyes:	If the product contacts the eyes, promptly wash (irrigate) the eyes with large amounts of tepid water for at least 15 minutes, occasionally lifting the lower and upper lids. Seek medical attention immediately.	Possible eye irritation.
Ingestion:	Seek medical attention immediately. Never give an unconscious person anything by mouth.	Possible gastrointestinal irritation causing nausea and vomiting.

- Inhalation:** If a person inhales large amounts of the product move the exposed person to fresh air at once. If breathing is difficult or stops seek immediate medical attention. Possible respiratory tract and mucous membrane irritation.
- Skin Contact:** If the product contacts the skin, immediately flush the contaminated skin with mild soap and water. If this chemical penetrates clothing immediately remove the clothing and flush the skin with water. Seek medical attention immediately. Possible skin irritation.

SECTION 5 FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:** Use extinguishing media appropriate for the surrounding fire. This product is compatible with commercially available extinguishing media.
- Special Protective Equipment for Firefighters:** This product does not require the use of any additional fire fighting equipment beyond what is appropriate to the surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Wear chemical resistant boots, clothing, eye protection, and gloves to prevent skin contact. (See Section 8)
- Small Spills:** Identify the spilled material(s). Barricade the spill area and notify others in the surrounding areas. Control all sources of ignition if the substance is flammable. Don the appropriate personal protective equipment (See section 8). Control the movement of the spilled product (into drains, soil, across floors etc.) with absorbent spill materials. Collect contaminated spill material and place in container meeting appropriate U.N. packaging requirements. Decontaminate used equipment and affected spill area appropriately.
- Large Spills:** In addition to small spill precautions, determine personnel evacuation distances. Notify appropriate authorities if necessary.
- Environmental Precautions:** Collect and dispose of contaminated materials according to international, federal, state and local regulations. Keep away from surface and ground water, drains, and soil.

SECTION 7 HANDLING AND STORAGE

- Handling:** Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment (See Section 8) to prevent chemical exposures. Wash hands with soap and water before eating, drinking, or touching common items (phone, computer, etc.) to prevent cross contamination. Use this product with adequate ventilation. See product technical data sheet for details.
- Storage:** See product technical data sheet for details.
- Specific use:** See product technical data sheet for details.

SECTION 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limit Values:	OSHA PEL	NIOSH REL	ACGIH TLV	Other
Sodium Chloride:	Not Listed	Not Listed	Not Listed	See Below
Russia:	OEL - STEL 5 mg/m ³ , JUN2003			
Agar:	Not Listed	Not Listed	Not Listed	None
	Normal Handling Conditions		Emergency Response Conditions	
Engineering Controls:	General room ventilation is adequate for the use of this product.		Provide negative pressure ventilation.	
Respiratory Protection	Use appropriate respiratory protection.		Use appropriate respiratory protection.	
Eye Protection:	Safety glasses with side shields.		Chemical splash goggles or other face protection as appropriate.	
Skin Protection:	Laboratory coat, adequate chemical-resistant gloves.		Chemically resistant boots, clothes, and impermeable gloves as appropriate.	
Environmental Exposure Controls:	Not available.		Not available.	
Other Equipment:	Safety shower, eyewash stations, and hand washing equipment should be available close to the work area as needed.			

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gelatinous Solid in Polymer Body	
Odor:	None	
Odor Threshold:	Not Available	
pH:	7.1 - 7.5	
Melting Point/Freezing point:	Not Available	
Initial boiling point and boiling range:	Not Available	
Flash Point:	Not Available	
Evaporation Rate, 20 °C:	Not Available	
Flammability (Solid/Gas):	Not Available	
Explosive Limits:	LEL: Not Available	UEL: Not Available
Vapor Pressure:	Not Available	
Vapor Density, 20 °C:	Not Available	
Relative Density (Water = 1.0):	Not Available	
Solubility:	Soluble	
Partition coefficient (n-octanol/water):	Not Available	

Auto Ignition Temperature (ASTM D1929): Not Available

Decomposition temperature: Not Available

Oxidizing Properties: None

Viscosity, centipoise: Not Available

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal operating conditions and use as described in the product technical data sheet.

Conditions to Avoid: See product technical data sheet for details.

Incompatible Materials to Avoid: Strong acids or bases, strong oxidizers, and extreme temperatures.

Hazardous Decomposition Products: When heated to ignition point; carbon monoxide, carbon dioxide, and compounds of nitrogen.

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicology Data: Toxicological information for this product as a whole does not exist, below is data for the individual components.

Sodium Chloride: RTECS #VZ4725000

Agar: RTECS #AW7950000

	Toxicity Test	Exposure Route	Dose	Observed Effect
Acute Toxicity:				
Sodium Chloride:	LD ₅₀ (Mouse)	Oral	4,000 mg/kg	N/A ¹
	LD ₅₀ (Rat)	Oral	3,000 mg/kg	N/A ¹
	LD ₁₀ (Rabbit)	Oral	8,000 mg/kg	N/A ¹
Agar:	LD ₅₀ (Rat)	Oral	11,000 mg/kg	N/A ²
	LD ₅₀ (Rabbit)	Oral	5,800 mg/kg	N/A ²
	LD ₅₀ (Hamster)	Oral	6,100 mg/kg	N/A ²
Skin Corrosion/Irritation:				
Sodium Chloride:	Skin Irritation (Rabbit)	Skin	500 mg/24H	Mild ¹
Serious Eye Damage/Eye Irritation:				
Sodium Chloride:	Eye Irritation (Rabbit)	Eye	100 mg/24H	Moderate ¹
	Eye Irritation (Rabbit)	Eye	10 mg	Moderate ¹
Respiratory or Skin Sensitization:	Not Available			
Germ Cell Mutagenicity:	Not Available			
Reproductive Toxicity:	Not Available			

STOST-Single Exposure: Not Available

STOST-Repeated Exposure: Not Available

Aspiration Hazard: Not Available

Carcinogenicity: Carcinogenetic information for this product as a whole does not exist, below is data for the individual components.

Research Agency:	OSHA:	NTP:	IARC:
Sodium Chloride:	Not Listed	Not Listed	Not Listed
Agar:	Not Listed	Not Listed	Not Listed

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Ecotoxicity information for this product as a whole does not exist, below is data for the individual components.

Sodium Chloride: LC₅₀ Carassius Auratus 24 Hours 9,900,000 ug/L³
 LC₅₀ Carassius Auratus 48 Hours 7,550,000 ug/L³
 LC₅₀ Carassius Auratus 96 Hours 7,000,000 ug/L³

Agar: Not Available.

Mobility: Not Available.

Bio Accumulative Potential: Not Available.

Results of PBT Assessment: Not Available.

Other adverse effects: None Known.

SECTION 13 DISPOSAL INFORMATION

Substance: Dispose of unused contents in accordance with international, federal, state, and local regulations.

Contaminated Packaging: Dispose of container in accordance with international, federal, state and local requirements.

SECTION 14 TRANSPORTATION INFORMATION

UN Number: Not Listed.

Class: Not Listed.

Proper Shipping Name: Not Listed.

Packing Group: Not Listed.

Marine Pollutant: Not Listed.

Other Applicable Information: None.

SECTION 15 REGULATORY INFORMATION

Australia:	Hazchem Code:	Not Listed.
	Poisons Schedule Number:	Not Listed.
California:	Proposition 65 Listed:	Not Listed.
Canada:	WHMIS:	Not Listed.
European Union:	REACH:	Chemical Safety Assessment for the substance or substances in the preparation not required.
	Substances of Very High Concern (SVHC) – January 13, 2010:	This product does not contain SVHC's in concentrations above 0.1% weight/weight.
	Category of Danger:	None Applicable.
	Risk Phrases:	None Applicable.
	Safety Phrases:	S7/9: Keep container tightly closed and in a well-ventilated place. S20/21: When using do not eat, drink or smoke. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and tepid water. S29/35: Do not empty into drains; dispose of this material and its container in a safe way. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately.
	OECD/High Production Volume (HPV) chemicals:	Sodium Chloride and Water.
	RoHS:	This product does not contain RoHS listed substances in concentrations above the established thresholds.
Japan:	Poisonous and Deleterious Substances Control Law:	Not Listed.

SECTION 16 ADDITIONAL INFORMATION

Product Number: Product Name:

ATSMTTB24 M AIR T[®] Isolator Cassette prefilled with TSA Media 24/PK

ATMCTTD48 M AIR T[®] Cassette prefilled with TSA Media 48/PK

ATSMTTD60 M AIR T[®] Cassette prefilled with TSA Media 60/PK

Training Advice: Seek effective chemical handling training to reduce the hazards associated with this product prior to use.

Technical Contact: <http://www.millipore.com/support>

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.
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.
LDLo	Lowest observed lethal dose
LEL	Lower Explosive Limit
MSFU	Manufacture, Formulation, Supply and Use (Section 13)
NIOSH	National Institute of Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	United States Occupational Safety and Health Administration
RID	International regulations concerning the international carriage of dangerous goods by rail.
RTECS	Registry of Toxic Effects of Chemical Substances (US)
STOST	Specific Target Organ Systemic Toxicity
UEL	Upper Explosive Limit
WHMIS	Workplace Hazardous Materials Information System (Canada)

This safety data sheet has been prepared to comply with the requirements of the European Union regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 1906/2006 and ANSI standard Z400.1-1998.

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¹ National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333, USA, Registry of Toxic Effects of Chemical Substances (RTECS) File #VZ4725000, 1/9/01, Copyright . 1995-2009 by Symyx Technologies, Inc. All rights reserved.

² National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention, 1600 Clifton Rd, Atlanta, GA 30333, USA, Registry of Toxic Effects of Chemical Substances (RTECS) File # AW7950000, 8/9/05, DIALOG(R)File 336: RTECS Portions (c) Copyright 2009, U.S. Government. Rights Res. All rights reserved.

³ Adelman, I.R.Jr., Standard Test Fish Development. Part I. Fathead Minnows (*Pimephales promelas*) and Goldfish (*Carassius auratus*) as Standard Fish in, EPA-600/3-76-061A, U.S.EPA, Duluth, MN :77 p., 1976.