



*Monolyn MQ21, MQ22, MQ23,
MQ24, MQ25 MQ26, MQ28,
MQ221, MQ 251 Films*

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: Monolyn MQ21, MQ22, MQ23, MQ24, MQ25, MQ26, MQ28, MQ 221, MQ 251 Films
OTHER/GENERIC NAMES: Polyamide Film
PRODUCT USE: Plastic Film
MANUFACTURER: M&Q PACKAGING CORPORATION
EARL ST., P.O. BOX 180
SCHUYLKILL HAVEN, PA 17972

FOR MORE INFORMATION CALL:
(Monday-Friday, 9:00am-4:30pm)
Quality Assurance Department: (570) 385-4991

IN CASE OF EMERGENCY CALL:
(570) 385-4991

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME:</u>	<u>CAS#</u>	<u>Weight %</u>
Polycaprolactam (Non hazardous)	25038-54-4	Proprietary

Trace impurities and additional material names not listed above may also appear in the Regulatory Information section (#15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear or colored plastic film. Not considered hazardous under normal usage. Can release irritating and/or toxic vapors if involved in a fire.

POTENTIAL HEALTH HAZARDS:

SKIN: Not considered hazardous.

EYES: Not considered hazardous. May cause mechanical irritation if film comes into contact with the eye.

INHALATION: Not a route of exposure under normal usage. Elevated processing temperatures may release irritating vapors.

INGESTION: Not a route of exposure. Not considered hazardous.

DELAYED EFFECTS: None known.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

INGREDIENT NAME: **NTP STATUS** **IARC STATUS** **OSHA LIST**

- No ingredients listed in this section*

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4. FIRST AID MEASURES

SKIN: None needed.

EYE: None needed under normal usage. If material comes into contact with the eye, flush eye with water while holding eyelids apart to ensure complete irrigation.

INHALATION: None needed under normal usage. If exposed to vapors at elevated processing temperatures, remove to fresh air.

INGESTION: None needed.

ADVICE TO PHYSICIAN: None.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	Not applicable.
FLASH POINT METHOD:	None applicable
AUTOIGNITION TEMPERATURE:	Not determined.
UPPER FLAME LIMIT (Volume % in air):	Not applicable. Non-volatile solid.
LOWER FLAME LIMIT (Volume % in air):	Not applicable. Non-volatile solid.
FLAME PROPAGATION RATE (Solids):	Not determined.
OSHA FLAMMABILITY CLASS:	Not determined.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical foam, water or other agents as appropriate from materials in surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Molten film at higher temperatures can ignite and will burn.

SPECIAL FIREFIGHTING PRECAUTIONS/INSTRUCTIONS:

Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE:

Always wear recommended personal protective equipment.
Collect and place in a solid waste container.

7. HANDLING AND STORAGE

NORMAL HANDLING:

(Always wear recommended personal protective equipment.)
This product should be handled according to applicable Good Manufacturing Practices.

STORAGE RECOMMENDATIONS:

Store in a cool, dry area away from direct heat or sunlight. Keep away from pesticides, PCBs and other hazardous chemicals.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

General room ventilation plus local exhaust at points of fume generation to maintain exposure below the PEL/TLV exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

SKIN PROTECTION:

Not normally required. Use heat resistant gloves if handling melted material.

EYE PROTECTION:

As a general practice in manufacturing areas, safety glasses that conform to ANSI Z87.1 should be worn.

RESPIRATORY PROTECTION:

Under normal usage, not normally required. A NIOSH/MSHA approved respirator should be worn in areas where the PEL/TLV is exceeded.

ADDITIONAL RECOMMENDATIONS:

None.

EXPOSURE GUIDELINES:

INGREDIENT NAME

Caprolactam Vapor

ACGIH TLV

OSHA PEL

TWA = 20mg/m³

OTHER LIMIT

STEL = 40mg/m³

** = Workplace Environmental Exposure Level (AIHA).

*** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: MQ21, MQ22, MQ221 = Clear plastic film. MQ23, MQ25, MQ251 = Orange plastic antistatic film. MQ24 = White plastic film. MQ26 = Blue plastic film. MQ28 = Blue plastic antistatic film.

PHYSICAL STATE:

Solid.

ODOR: None

SPECIFIC GRAVITY (Water = 1.0):

1.05-1.25

SOLUBILITY IN WATER (Weight %):

Negligible.

pH:

Not applicable.

BOILING POINT:

Not applicable.

MELTING POINT:

220-223 °C (428-433°F)

VAPOR PRESSURE:

Negligible at room temperature.

VAPOR DENSITY (Air = 1.0):

Not determined.

EVAPORATION RATE:

Not applicable.

COMPARED TO:

Not applicable.

% VOLATILES:

Negligible

FLASH POINT:

> 400°C (Flash point method and additional flammability data are found in Section 5.)

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10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Normally stable. Avoid exposure to open flame or temperatures exceeding recommended processing temperatures.

INCOMPATIBILITIES:

Strong oxidizing agents, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products may include: caprolactam, carbon monoxide, carbon dioxide, hydrogen cyanide, and ammonia when exposed to extreme heat.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

Not determined.

DELAYED (SUBCHRONIC & CHRONIC) EFFECTS:

None known.

OTHER DATA:

None.

12. ECOLOGICAL INFORMATION

Material is considered inert and not expected to be biodegradable or toxic.

13. DISPOSAL CONSIDERATIONS

RCRA:

Is the unused product a RCRA hazardous waste if discarded?	No.
If yes, the RCRA ID number is:	Not applicable

OTHER DISPOSAL CONSIDERATIONS:

Dispose of in compliance with Federal, state and local government regulations. Usually considered an inert packaging material that can be recycled or land filled.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated.

US DOT ID NUMBER: Not applicable.

For additional information on shipping regulations affecting this material, contact the information number found on the first page.

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15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

TSCA INVENTORY STATUS: All components used to produce the above formulations are listed on the TSCA Inventory.

OTHER TSCA ISSUES: None

SARA TITLE III/CERCLA:

“Reportable Quantities” (RQs) and/or “Threshold Planning Quantities” (TPQs) exist for the following ingredients.

INGREDIENT:

SARA/CERCLA RQ (lb):

SARA EHS TPO (lb):

* No ingredients listed in this section *

Spills resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: None.

SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 “Toxic Chemicals”. CAS #'s and weight percents are found in Section 2.

INGREDIENT

COMMENT

* No ingredients listed in this section*

STATE RIGHT TO KNOW:

In addition to the ingredients found in section 2, the following are listed for state right-to-know purposes:

INGREDIENT:

WT. %:

COMMENT:

None listed in this section

ADDITIONAL REGULATORY INFORMATION:

The base monomer is listed on the EINECS Inventory

WHMIS CLASSIFICATION (CANADA):

Not a controlled substance. (Considered to be a manufactured article)

16. OTHER INFORMATION

CURRENT ISSUE DATE: January 2008

PREVIOUS ISSUE DATE: January 2000

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

Addition of MQ26 and MQ28

Addition of MQ221 and MQ251. Removed Monolyn trademark symbol.

OTHER INFORMATION: None

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