The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

"KAPTON" POLYIMIDE FILM, E TYPES
KAP00005 Revised 7-MAR-1994

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Kapton is a registered trademark of DuPont.

Corporate MSDS Number : DU005419

Tradenames and Synonyms

"KAPTON" TAB-E
"KAPTON" TAB-EZT
"KAPTON" TAB-EN
"KAPTON" TAB-ENZT
"KAPTON" FPC-E
"KAPTON" FPC-EZT
"KAPTON" FPC-EN
"KAPTON" FPC-ENZT

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
"Kapton"/"Teflon" Customer Service
P.O. Box 89
Circleville, OH 43113

PHONE NUMBERS
Product Information : 1-800-237-4357
Transport Emergency : 1-800-424-9300
Medical Emergency : 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
INERT POLYIMIDE FILM		100

Components (Remarks)

The specific identity of the polymer is withheld as a trade secret.

All reportable ingredients are listed in the TSCA Chemical Substance Inventory.

HAZARDS IDENTIFICATION

Potential Health Effects

Before using "Kapton" Polyimide Films, read the bulletin on safe handling and use.

POTENTIAL HEALTH EFFECTS

INHALATION/INGESTION: Not probable routes of exposure for films.

SKIN CONTACT: In a skin irritation study, some animals were noted to have mild skin irritation after exposure to Kapton E-type films. However, in four subsequent studies, animals did not exhibit skin irritation. Handling these films may result in skin irritation in susceptible individuals.

EYE CONTACT: Not a probable route of exposure for films. exposure for the film.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

Not a probable route of exposure for films.

SKIN CONTACT

Wash with soap and water after handling. If skin irritation develops, consult a physician.

EYE CONTACT

Flush eyes with water. Consult a physician if irritation persists.

INGESTION

Not a probable route of exposure for films.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

The flammability characteristic of polyimide film is reported as "self-extinguishing".

"Kapton" will burn in an atmosphere of 100% oxygen. The major off-gases are carbon dioxide and carbon monoxide. "Kapton" chars but does not burn in air.

The processing of "Kapton" polyimide films can cause the generation of static charge. Precautions for static charges should also be taken when removing plastic films used as protective packaging for "Kapton".

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

None required.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

Practice good housekeeping to prevent and eliminate slipping hazards.

HANDLING AND STORAGE

Handling (Personnel)

Wash thoroughly after handling.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Safe handling of "Kapton" polyimide films at high temperatures (above 200 deg C) requires adequate ventilation If small quantities of "Kapton" are involved, normal air circulation may be all that is needed in case of overheating. Whether or not existing ventilation is adequate at higher temperatures will depend on the combined factors of film quantity, temperature and exposure time.

Personal Protective Equipment

Safety glasses are recommended as good industrial practice.

Respirators are not needed for normal use.

Special protective clothing is not needed for normal use. Gloves are recommended as good industrial practice.

Exposure Guidelines

Exposure Limits
"KAPTON" POLYIMIDE FILM, E TYPES

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: None Established

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Solubility in Water	: Insoluble
Form	: Transparent film
Color	: Amber-colored
Specific Gravity	: >1.4

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

DISPOSAL CONSIDERATIONS

Waste Disposal

Landfill or incinerate in compliance with federal, state and local regulations.

OTHER INFORMATION

Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications see DuPont CAUTION Bulletin No. H-50102.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : "Kapton" Customer Service
Address : DuPont
Circleville, OH
Telephone : 800-237-4357

# Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS