MITSUBISHI CHEMICAL GROUP | Polyester Film

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Safe Handling of Hostaphan™ W-Series Polyester Film

Product Identification:

W-Series polyester film (PET) is polyethylene terephthalate (CAS# 25038-59-9) containing barium sulfate (CAS# 7727-43-7).

Physical-Chemical Data:

The odorless white film is chemically stable and resistant to attack by oils, solvents, weak acids and weak alkalis. The film melts in the range of ~250°-265°C. It decomposes above 300°C. In the melt and upon decomposition, acetaldehyde (CAS# 75-07-0) may form. The density is in the range of 1.4 – 1.5.

The film also contains Barium Sulfate immobilized in the polymer matrix. Under normal use conditions, exposure is not expected. Machining, grinding, or other dusting conditions should be monitored, and respirable dust and particulate exposure maintained below established exposure limits. Exposure limits (U.S.) for barium sulfate:

ACGIH TWA = 10 mg/m3
OSHA PEL = 5 mg/m3 (respirable fraction)
= 15 mg/m3 (total dust)

Physical Hazards:

Heavy gauges of polyester film can contain sharp edges. Proper protective gear, such as gloves, is recommended.

Unwinding, winding and passage of polyethylene terephthalate film through and over rollers will tend to generate a strong electrostatic charge on the web. Static discharge devices should be properly positioned at such points to eliminate the charge and to prevent uncontrolled discharge from the web. This is particularly required in potentially explosive atmospheres and to protect personnel from the effect of static discharge.

Silicone-coated grades of polyester film can create a slip hazard. Walking areas should be kept clear of the film.

Health Hazards:

No adverse health effects have been attributed to polyester film.

Hazard Designations:

Health	0
Flammability	1
Reactivity	0

NFPA KEY

0 = None, 1 = Slight, 2 = Moderate, 3 = Severe, 4 = Extreme

Regulatory Status:

U.S. Regulations:

This product is an “article” for purposes of the Toxic Substances Control Act (TSCA) and meets the definition of the term “article” under 40 CFR 720.3(c). A Safety Data Sheet (SDS) is not required under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Canada and Europe:

Polyethylene terephthalate is listed on the Canadian DSL and its reactants are listed on EINECS.

Status under REACH:

Not classified as hazardous. PET film is considered an “article” under REACH, rather than a “substance” or “mixture” and does not require a Safety Data Sheet (SDS) as defined by the regulation.

Disposal and Shipping Information:

Polyester film is not classified as a hazardous waste under Directive 2008/98/EC, the U.S Resource Conservation and recovery Act and, unless prohibited by state or local regulation, can be disposed of in a municipal landfill or incinerated. Mechanical recycling would be possible, provided a suitable collection scheme, etc., were established. This product is not classified by the Department of Transportation as a hazardous material.

Information Contact:

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