Skyrol® SH82 Polyester Film GHS Format Safety Data Sheet

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SECTION I: IDENTIFICATION

Material Identification

SKYROL® Polyester (Polyethylene Terephthalate) Film is a registered trademark of SKC Inc.
Polyester film is sometimes referred to as 'PET' film.

Product Description

Single layer clear Polyester film with adhesion promoting treatment on both sides

Product Use

Product uses include Industrial, Imaging, Storage and Display applications, among others.

Supplier Details

Manufacturer / Distributor

SKC Inc. (Films Division)
1000 SKC Drive
Covington, Georgia, 30014, USA

Phone Numbers

Product Information: 678-342-1000 Fax: 678-342-1200
Transport Emergency: 1-800-424-9300 (Chemtrec

SECTION 2: HAZARD IDENTIFICATION

SKYROL® Polyester (Polyethylene Terephthalate) Film is not a hazardous material and is not considered dangerous according to criteria set by OSHA's GHS standard.

NFPA, NPCA-HMIS

NFPA Rating

Health:	1
Flammability:	1
Reactivity:	0

NPCA-HMIS Rating

Health:	0
Flammability:	1
Reactivity:	0

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Basic Chemical Composition

Material	CAS Number	EC Number	Percentage
SKYROL® Polyester Film is:			
Polyethylene Terephthalate	25038-59-9	N/A	80 - 100%
Base resin is produced from:			
Ethylene glycol	107-21-1	203-473-3	
and Dimethyl Terephthalate	120-61-6	204-411-8	
Eye irritant (In raw material form only)			
or Terephthalic Acid	100-21-0	202-830-0	
Skin/Eye/Respiratory irritant (In raw material form only)			
Silicon Dioxide	7631-86-9	202-830-0	< 5%
Other Fillers	various		< 5%
Surface Coatings	various		< 1%

Trade names and synonym prefixes denoting type of Skyrol® Films, such as SD, SG, SH, SL, SM, SP, SR, SW, and T* suffixes for thickness such as 12u or 100ga etc., do not alter the chemical properties or the information provided herewith.

SECTION 4: FIRST AID MEASURES

IN ITS FINISHED FORM, THE PRODUCT IS NOT AN IRRITANT AND HAS NEGLIGIBLE HEALTH RISKS EVEN AFTER PROLONGED EXPOSURE

INHALATION: If exposed to fumes from overheating or combustion, move to fresh air. Consult physician if symptoms persist.

SKIN CONTACT: Very unlikely for PET to have hazardous effect on skin, but it is recommended to wash hands and skin after handling. If molten PET polymer gets on skin, cool rapidly with cold water. Obtain medical attention immediately for any resulting thermal burns.

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Obtain medical attention if necessary.

INGESTION: Consult physician if ingested.

NOTES TO PHYSICIANS: Prolonged eye irritation may occur from pieces of debris sticking to the eyeball or eyelids.

SECTION 5: FIRE FIGHTING MEASURES

Skyrol® Polyester film is a flammable solid that is combustible, if exposed to flame.

During processing, film may build up static charge.
Static Eliminators are strongly recommended.

FIRE AND EXPLOSIVE HAZARDS
During combustion, hazardous byproducts are produced; these include carbon dioxide, carbon monoxide, organic acids, aldehydes and alcohols.

EXTINGUISHING MEDIA: Water, Foam, Dry Chemical and/or Carbon dioxide.

FIRE EXTINGUISHING INSTRUCTIONS: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus with full protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

NONE - NOT APPLICABLE

SECTION 7: HANDLING AND STORAGE

HANDLING: Thicker films may have sharp edges.
Use appropriate Personal Protective Equipment when handling.

STORAGE: Shall be stored away from heat and sources of ignition.
Avoid storage in direct sunlight and prolonged storage in high or low temperatures.
Product will remain stable at room temperature and typical storage conditions.
Packaging materials: Polypropylene Overwrap
Treatment, Storage, Transportation, and Disposal must be done in accordance with applicable Regulations**.**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None.
Exposure controls: None.
RESPIRATORY: None
SKIN: Would recommend the use of gloves for extensive handling for protection against sharp edges.
EYES PROTECTION: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Flat film, supplied in either sheet or roll form
Appearance	Clear, with various levels of haze Color may include a yellow, white or blue tint
Odor	Odorless
Melting Point	256 ~ 265 °C (or lower for modified resins)
Specific Gravity	1.4 g/cc (as low as 1.2 g/cc for modified films)
Flash/Ignition Temp	497 °C
Heat of Combustion	23.5 ml/kg.
Specific Heat	1.34 KJ/kg @ 25°C (for plain films)
Thermal Conductivity	3.4×10^{4} cal/cm^{3}.sec.^{0}C
Solubility	Insoluble in water
Volatility	Negligible up to 300 °C
Vapor Pressure	Negligible @ 20°C (68°F)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability
Stable at room temperature and with typical storage conditions.

Incompatibility with Other Materials: Avoid contact with strong acids and/or bases, and oxidizing agents
.

Decomposition: Decomposition Temperature > 300°C (572°F)
Decomposition products may include acetaldehyde (CAS 75-07-0), at a low level
.

Polymerization: Polymerization will not occur.

SECTION 11: HEALTH AND TOXICOLOGY INFORMATION

Polyester film in inert in its physical state, and is non-reactive.

Skin Effect – Not considered as a skin irritant. Some films may exhibit sharp edges and/or corners (wear proper personal protective equipment, such as gloves).
Molten polymer can cause thermal burns. Wear proper personal protective equipment.

Inhalation – No adverse effects, with normal use.

Ingestion – Not expected during normal use. If ingested, seek medical attention.

Carcinogenic Information:
IARC, NTP, OSHA or ACGIH list the following component(s) as carcinogens:

Material		IARC NTP OSHA ACGIH
Titanium Dioxide (if present)		2B

Toxicology Information

Animal Data
Polyethylene Terephthalate
Oral ALD > 10,000 mg/kg in rats

Based on insolubility of PET in water, toxicity is expected to be very low.

SECTION 12: ECOLOGICAL INFORMATION

Skyrol® Polyester film is not regarded as dangerous to the environment and is expected to have no adverse effects as it is solid, low volatility and insoluble in water.

SECTION 13: DISPOSAL METHODS

Preferred options for disposal include RECYCLING, INCINERATION (with ENERGY RECOVERY) and LANDFILL.
Treatment, Storage, Transportation, and Disposal must be done in accordance with applicable Federal/Country, District/State, and Local Regulations.

SECTION 14: TRANSPORT INFORMATION

There are no restrictions or special conditions for shipment.
Not regulated by DOT

SECTION 15: REGULATORY INFORMATION

Not Regulated:
Material is classified as an “article” under REACH legislation (registration not required).

U.S. Federal Regulations:

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

SARA Regulations Sections 313 and 40 CFR 372: This product does not contain any chemicals subject to the reporting requirements of SARA.

Clean Air Act Status: This product does not contain, and is not manufactured with ozone depleting chemicals.

TITLE III HAZARD CLASSIFICATION: Information not available.

California Proposition 65 - compliant
CONEG – Compliant
RoHS - SVHC: compliant

SECTION 16: OTHER INFORMATION

Trade names and synonym prefixes denoting type of Skyrol® films, such as SG, SH, SL, SM, SP, SR, SW etc., and suffixes for thickness such as 12u, 48gauge, 0.48mil, etc., do not alter the chemical and physical properties or the information provided herewith.

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

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