Material Safety Data Sheet

SleekerDigital™ Holographic Foils

Supplier Identification:

GVDirect™
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	SECTION 1: General Information
Product Name	SleekerDigital™ Holographic Films - Crystal, Hyper-Plaid, Mosaic, Sparkle, Spectrum & Star
Generic Description	PET Carrier Layer / 1st Peel-Off Layer / 2nd Coloring Layer / 3rd Metalic Layer / 4th Adhesive Layer
Product Names Covered	"SleekerDigital™ Holographic Films" series are hot laminating films. * Various numbers may be added with the above indicating different thickness and sizes.

	SECTION 2: Ingredients and Composition
	PET Carrier Layer / 1st Peel-Off Layer / 2nd Coloring Layer / 3rd Metalic Layer / 4th Adhesive Layer
CAS No.	- Polyester Base : 25038-59-9 - Peel-Off Layer - Modified Cellulose Solution : Not Hazardous - Coloring Layer - Modified Acrylic Resin Solution : Proprietary - Adhesive Layer - Modified Acrylic Resin Solution : Proprietary - MEK : 78-93-3 - Toluene : 108-88-3 - Methyl Alcohol : 67-56-1 - Ethyl Acetate : 141-78-6 - Butyl Acetate : 123-86-4 - Cyclo-Hexanone : 583-60-8 - Methyl Alcohol : 67-56-1

	SECTION 3: Hazards Identification
NFPA Grade (0-4 step)	

Health	Flammability	Response
0	1	0

- This film has a slight odor when heated or laminating but these vapors show traces of teckifier in undetectable amounts.
- The toxicological properties of this material have not been investigated.
* Should better use normal ventilation in laminate working room.
- The molten product adheres to the skin and causes burns.
- Spilled material may present a slipping hazard.
- Possible production of electrostatic charging when used.
- The working steams can irritate the eyes as well as the respiratory tract.

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	SECTION 4: First Aid & Safety Measures
Eyes	Eyewashing with water for about 10 minutes, immediately.
Skin	Wash skin with soap and plent of water. If irritation were continuous, get medical attention.
Inhalation	Change to fresh air in working room occasionally.

	SECTION 5: Fire & Explosion Hazard Data
Extinguishing Media	In case of fire, Use water, dry chemical, chemical foam or CO_2
Flash Point	N/A
NFPA Rating	Health = 0, Flammability = 1 *National Fire Protection Association
Explosion Limits	N/A
Flammable Limits	Non Flammable
Special Procedures	As with any fire, use of gas mask is recommended, and full protective gear prevent contact with skin or eyes. During a fire, irritating and highly toxic gases and thick smoke may to be generated by thermal decomposition or combustion. If burned by contact with hot plastic sticking to the skin, cool it with cold water quickly and then seek medical attention.

SECTION 6: Accidental Release Measures

Steps to be taken if material is released or spilled:
After lamination, laminated surface become too thin layer, so spilled substrates can be refused. During working, may be dusty on hot melt layer by electro-statics, so work place should be kept clear all the times.

SECTION 7: Handling & Storage

Precautions to be taken in handling and storage:
Keep away from flames and sources of ignition. To prevent accumulations of dust keep airborne dust concentration at a minimum, store in a cool, dry place. If material must be stored for any length of time, optimum storage parameters are: Maximum 60~80°F (16~26°C) ambient temperature with 45~60% Relative Humidity ideal.

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	SECTION 8: Exposure Controls & Personal Protection
Ventilation	Use adequate normal exhaust ventilation to keep airborne concentration below the permissible exposure limit.
Skin	Wear appropriate protective gloves to avoid skin abrasion.
Eyes	Use of safety glasses or goggles in any industrial operation is suggested.

	SECTION 9: Physical and Chemical Properties
Appearance	Transparent / Semi-Transparent Film
Odor	Mild, odorless sheets after lamination
pH	N/A
Solubility in Water	Insoluble
Melting Point	90°C (170.6°F)
Form	Solid film/sheet
Specific Gravity	1.1 ~ 1.3
Vapor Density	N/A
Boiling Point	N/A

	SECTION 10: Stability and Reactivity
Chemical Stability	Stable under normal room temperature and atmospheric pressure.
Conditions to Avoid	Caused by static electricity, it may be dust attach to film. So keep to clean the working environment.
Hazardous Polymerization	None Reported.
Hazardous Decomposition Products	N/A

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SECTION 11: Toxicological Information

Health hazard and toxicity information does not exist for this material.
This product is a low hazard for usual use and treatment.
* All this information is based on studies done by manufacturers of individual components.

SECTION 12: Ecological Information

These films are not soluble in water.
Complete information is not yet available about environmental impacts.

SECTION 13: Disposal Consideration

Recycling

In the United States, UK, Canada and Korea, this film product has to be disposed of in accordance with applicable federal, state and municipal solid waste labeling, shipping and disposal laws and regulations.

SECTION 14: Transportation Information

Non-regulated commodity

SECTION 15: Regulatory Information

Regulation	PET	Silicone Coated
Occupational Safety Health	Non-Regulated	Non-Regulated
Hazardous Chemical Material Managing	Non-Regulated	Non-Regulated
Dangerous Article Safety Managing	Non-Regulated	Non-Regulated

40 CFR 302, 40 CFR 355, 40 CFR 355, 40 CFR 370, 40 CFR 372, 29 CFR 1910 : Non Regulated Commodity. This MSDS information may be copied and distributed for these materials.

SECTION 16: Other Information

This is not a product specification.
The informed industrial hygiene and safe handling procedures are offered in good confidence to be applicable. However, each user should review these recommendations in specific context of the intended use and determine whether they are appropriate. In the event that you disagree with these recommendations, or learn of data that would contradict any of the information, please contact GVDirect so that we may investigate and possibly update our MSDS. Thank you for helping us provide the best information possible.

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