

LUXEFILMS® RAINBOW HOLOGRAFIK™ METALIZED PRINTABLE FILM

SECTION 1: Material Identification	
Product Name	Rainbow Holografik™ Metalized Printable Film Holographic Metalized Polyester / Adhesive film
Chemical Name	Main film = Metalized Polyester, PET Coating = Poly Ethylene Vinyl Acetate, EVA
CAS Hazard Class	Not regulated
CAS No	NA
Shipping Name	NA
Preparer	NA
SECTION 2: Hazardous Identification	
Unusual Fire and Explosion Hazards	No unusual hazards
The film can pick up strong static charge during processing. Avoid discharge into dust or solvent as a flash fire or explosion may result.	
Unusual Fire and Explosion Hazards	The products of incomplete combustion include carbon Monoxide, carbon dioxide and Acetaldehyde. A static discharge device is necessary to eliminate the electrostatic buildup on the roll as it is being unwound and re-wound, especially in potentially explosive atmospheres.
Fire Fighting Instructions/Procedures	Respiratory and eye protection should be provided for trained fire-fighting personnel to avoid contact with combustion products.
SECTION 3: Composition / Information on Ingredients (Classification According to 1272/2008 EC)	
Formula	PET = [-CH ₂ -CH-CH ₃ -] n EVA = [-CH ₂ -CH-COOCH ₃ -] n
Dangerous Ingredients	Polyester, Concentration: 100%
SECTION 4: First Aid Measures	
General Information	In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
Following Inhalation	If exposed to fumes from overheating or combustion moves to fresh air, get medical attention if symptoms persist.
After Eye Contact	If molten material contacts the eyes, immediately flush eyes with water for 5 minutes. Hold eyelids open during flushing. Consult a physician if symptoms persist.
After Skin Contact	Wash skin with plenty of water & soap. If molten polymer contacts skin, cool rapidly with water. Don't peel polymer from skin, get medical attention for thermal burn.
After Ingestion	No special measures are necessary
Self-Protection of the First Aider	No special measures are necessary
Symptoms	No symptoms known
Nature of Hazard	No risks worthy of mention
Treatment	Treat symptomatically

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SECTION 5: Fire-fighting Measures

The film can pick up strong static charge during processing. Avoid discharge into dust or solvent as a flash fire or explosion may result.

General information	Use water spray/stream to protect personnel and to cool endangered containers.
Suitable Extinguishing Media	Water fog. High power water jet. Alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO ₂).
Extinguishing media which must not be used for safety reasons	None
Special exposure hazards arising from the substance itself, combustion products, resulting gases	Pyrolysis products, toxic. Carbon dioxide. Carbon monoxide.
Special protective equipment for fire fighters	In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

Personal Precautions	See protective measures under 7 and 8.
Environmental Precautions	No special environmental protection measures are necessary.
Methods for Cleaning Up	Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and Storage

Storage Conditions / Shelf Life	Store in a cool and dry place. Packages are kept closed to prevent contamination. Roll may telescope, handle with caution. Avoid skin contact with sharp edges. Temperature and humidity should be controlled at 25°C - 35°C and less than 85% RH, respectively. Bare (opened) rolls are recommended to be handled at the condition of 18°C - 25°C and less than 65% RH. It is advisable to use Polypropylene thermal lamination films within six months from delivery. The rolls may be good condition even further if stored properly at recommended conditions in its original packing.
Information for safe handling	No special precautionary measures are necessary.
Technical measures	No special technical protective measures are necessary.
Precautions against fire and explosion	No special fire protection measures are necessary.
Technical measures and storage conditions	No special technical protective measures are necessary.
Packaging materials	No restriction
Requirements for storerooms and containers	None
Information about storage in one common storage facility	Keep away from food, drink and animal feeding stuffs.
Storage class	13 Non-combustible solids.

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SECTION 8: Exposure Controls/Personal Protection

Exposure limit values	Does not contain substances above concentration limits fixing an occupational exposure limit.
Components with workplace or biological limit values to be monitored	Exposure controls
Occupational Exposure Controls	Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.
Respiratory Protection	With correct and proper use, and under normal conditions, breathing protection is not required.
Hand Protection	Not required
Eye Protection	Not required
Skin Protection	Not required
Environmental Exposure Controls	Refer to section 7. No further action is necessary.
Consumer Exposure Controls	Refer to section 7. No further action is necessary.

SECTION 9: Physical and Chemical Properties

State of Matter	Solid
Appearance	Thin, Transparent plastic film with opaque appearance.
Paint	Different
Odor	Odorless
pH	Not Applicable
Melting Point/Melting Range	203 °F - 329 °F (95 °C - 165 °C)
Boiling Temperature/Boiling Range	No data available
Flash Point	No data available
Flammability	No data available
Explosion Hazard	Not Explosive
Lower Explosion Limit	None
Upper Explosion Level	None
Ignition Temperature	No data available
Oxidizing Characteristics	No data available
Solubility in Water	Insoluble
Specific Gravity	0.92 - 0.95 g/cc

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SECTION 10: Stability and Reactivity	
Stability at Room Temperature	Stable
Conditions and Materials to Avoid	Temperature above 165 °C, strong acids, alkali may hydrolyze the film.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide and Acetaldehyde.
Polymerization	Not occur
SECTION 11: Toxicological Information	
Acute Toxicity	No information available
Specific Symptoms in Laboratory Animals	No information available
Irritant Effect on the Skin	Not an irritant
Irritant Effect on the Eye	Not an irritant
Irritant Effect on the Respiratory Tract	Not an irritant
Sensitization	No danger of sensitization
Repeated dos Toxicity	No information available
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	None
Additional Information	None
Practical Experience	None
Other Observations	None
General Remarks	None
SECTION 12: Ecological Information	
Ecotoxicity	No information available
Aquatic Toxicity	No data. Very low toxicity is predicted based on negligible solubility of film in water.
Mobility	No information available
Persistence and Biodegradation	No information available
Bioaccumulative Potential	No information available
Other Harmful Effects	None
Further Ecological Information	None
Further Details	None

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SECTION 13: Disposal Considerations

Appropriate Disposal/Product	Landfill is preferable. Alternative is forced draft disposal method. Must conform to local, state and federal laws. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions. Can be disposed of on a rubbish tip for household waste.
Control Report for Waste Code/Waste	Making according descriptions must be carried out in a specific way for every industry and process.
Waste Key Product	20 01 39 - plastics
Waste Key Packaging	20 01 39 - plastics
Contaminated Packaging	Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.
Remark	Waste disposal according to official state regulations.

SECTION 14: Transport Information

OVERLAND TRANSPORT (ADR/RID)

Official Directive for the Transport	Rainbow Holografik™ Metalized Printable Film
UN-No.	-
Label	-
Packing Group	-
Classification: Code	-
Remark	Not a hazardous material with respect to these transportation regulations.

TRANSPORT BY SEA (IMDG)

Proper Shipping Name	Rainbow Holografik™ Metalized Printable Film
UN-No.	-
Label	-
Packing Group	-
EmS-No.	-
MFAG	-
Marine Pollutant	-
Special	Keep away from food, drink and animal feeding stuffs.
Remark	Not a hazardous material with respect to these transportation regulations.

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AIR TRANSPORT (ICAO-TI/IATA-DGR) Continued	
Proper Shipping Name	Rainbow Holografik™ Metalized Printable Film
UN-No.	–
Label	–
Packing Group	–
Remark	Not a hazardous material with respect to these transportation regulations.
Mailing	Not a hazardous material with respect to these transportation regulations.
SECTION 15: Regulatory Information	
Labeling	Classification and labelling follow the criteria described in annex VI of the substance directive (67/548/EEC).
For this preparation a chemical safety assessment has been carried out	–
Danger symbol(s) and danger term(s) for dangerous materials and preparations	–
Phrases R	–
Phrases S	2 Keep out of the reach of children.
Hazard Pictograms	–
Signal Word	–
Phrases H	–
Phrases P	102 Keep out of reach of children. 501 Dispose of contents/container to waste disposal facility.
Hazardous Component(s) for Labelling	Polyester
Special Labelling of Particular Preparations	Safety data sheet available for professional user on request.
National Regulations	National legislation must be observed.
Information on Working Limitations	None
Disturbance Ordinance	None
Storage Class	13 Non-combustible solids
Water Hazard Class	nwg not a water pollutant
Technical Instructions an Air Quality (TA-Luft)	None
SECTION 16: Other Information	
Training Instructions	None
Documentation of Changes	None
Data Sources	Data arise from reference works and literature.

NOTE: The information furnished herein is believed to be factual. No hazardous substances are used in the manufacturing of this product or this material safety data sheet with the exceptions indicated. Though no specific analysis is done for the products or the raw material used in its manufacturing for hazardous substances stated in various states list. The information is taken from works and qualified experts, however nothing contained in the information is to be taken as warranty or representation for which Nobelus™ bears legal responsibility.