

PRODUCT SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT

Product Name: POLYPROPYLENE FILM – BICOR
See list in section 16.
Product Description: Polymer-based film (article)
Intended Use: Labeling material, packaging material

COMPANY IDENTIFICATION

Supplier: Jindal Films Americas, LLC
411 Pegasus Parkway
LaGrange, GA 30240 USA

EMERGENCY PHONE NUMBERS

24 Hour Emergency 800-424-9300-or 703-527-3887 (CHEMTREC)

SECTION 2	HAZARDS IDENTIFICATION
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This material is not considered to be hazardous as defined under the Occupational Safety and Health Administration's Hazard Communication Standard (March 2012).

POTENTIAL PHYSICAL / CHEMICAL EFFECTS

Thermal burn hazard - contact with hot material or heated surfaces may cause thermal burns.

Processing and handling may cause static electricity to accumulate that may cause an electrical spark and be a potential ignition source.

May create a combustible dust hazard.

POTENTIAL HEALTH EFFECTS

Under normal conditions of use, no effects are anticipated.

If dust is generated, dust can cause minor irritation to the eyes and respiratory tract from mechanical action or drying. When overheated, the vapors/fumes generated may cause eye and respiratory tract irritation.

NFPA Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0

SECTION 3	COMPOSITION / INFORMATION ON INGREDIENTS
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Not expected to contain substances classified as hazardous above the OSHA trigger levels.

SECTION 4	FIRST AID MEASURES
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INHALATION

Not normally a route of exposure. In case of adverse exposure to vapors or fumes formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

SKIN CONTACT

If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

EYE CONTACT

Contact with intact film not anticipated. Flush film particles in eyes thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

No adverse effects due to ingestion are expected.

SECTION 5	FIRE FIGHTING MEASURES
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EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂).

Inappropriate Extinguishing Media: Straight streams of water

FIRE FIGHTING

Fire Fighting Instructions: Material will burn in a fire. Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Assure an extended cooling down period to prevent re-ignition.

Unusual Fire Hazards: No unusual fire hazards. Exposure to fire can generate irritating fumes.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon, Nitrogen oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: N/D (Not Determined)

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

SECTION 6	ACCIDENTAL RELEASE MEASURES
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NOTIFICATION PROCEDURES

None required.

PROTECTIVE MEASURES

See Section 5 for fire-fighting information. See Section 4 for first aid advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Land Spill: Not applicable; product is not a liquid or flowable powder.

Water Spill: No immediate action required.

SECTION 7	HANDLING AND STORAGE
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HANDLING

No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

Static Accumulator: This material can accumulate static electricity in processing that may cause an electrical spark and be a potential ignition source. Follow generally accepted engineering procedures to control static, especially in areas classified as hazardous. Generally, processing that involves unwinding, winding, and contact with rollers and nips can generate a static electrical charge. Grounding of the equipment and use of static discharge methods may be necessary.

Combustible Dust Potential: Product will burn. Grinding or processing that produces finely divided dust is not anticipated in normal use, but such processing may create a combustible dust hazard. Consult with local fire officials, OSHA, NFPA, and other sources of information on controlling combustible dust if you process the film in such a manner.

STORAGE

Store in a cool, dry place.

Storage Temperature: 15°C (59°F) - 30°C (86°F)

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Whenever in processing the material and visible smoke is being created, the material is being overheated. If this occurs, adequate ventilation must be provided. Do not overheat.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

No special requirements under ordinary conditions of use and with adequate ventilation.

Hand Protection:

Not required under normal conditions of use. Product should not be so hot in processing that thermally protective gloves are needed. If contact of hot product with forearms is likely, wear gauntlet style gloves.

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Eye Protection:

Not required under normal conditions of use. If the product is being ground up, safety glasses with side shields are recommended to keep particles from getting in the eyes.

Skin and Body Protection:

No special clothing required under normal conditions of use. If product is overheated, thermally protective long sleeves are recommended.

Specific Hygiene Measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Practice good housekeeping.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

APPEARANCE:

Physical State: Solid

Form: Film

Color: Colorless or White

Odor: None to mild plastic

Odor Threshold: N/D

Relative Density (at 20 °C): 0.9 (typical)

Flash Point [Method]: N/D

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

Decomposition Temperature: Does not decompose at ambient temperatures.

Melting Point: 116°C (240°F) - 171°C (340°F)

Boiling Point / Range: N/D

Vapor Density (Air = 1): N/D

Vapor Pressure: N/D

Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/D

Log Pow (n-Octanol/Water Partition Coefficient): N/D

Solubility in Water: Negligible

Viscosity: N/D

Oxidizing Properties: Not an oxidizing solid.

SECTION 10**STABILITY AND REACTIVITY**

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: None in particular.

MATERIALS TO AVOID: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
Inhalation	
Toxicity: Data available.	Under normal circumstances of use, no inhalation is likely to occur. Based on test data for structurally similar materials.
Irritation: Data available.	Under normal circumstances of use, inhalation is not a likely route of exposure at ambient/normal handling temperatures. Based on test data for structurally similar materials, excessive heating can release irritating gases.
Ingestion	
Toxicity: Data available.	Under normal circumstances of use, ingestion is not an anticipated route of exposure. Based on test data for structurally similar materials.
Skin	
Toxicity: Data available.	Under normal circumstances of use, no effects are likely to occur from contact with skin. Based on test data for structurally similar materials.
Irritation: Data available.	Not irritating to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation: No end point data for material.	Under normal circumstances of use, eye contact is not an anticipated route of exposure.

Overheating of the product can cause polymer degradation and release of irritating gases.

This product is considered an article and is not expected to result in significant exposure to substances on the following lists, but definitive testing has not been performed:

- | | | |
|--------------|-------------|---------------|
| 1 = NTP CARC | 3 = IARC 1 | 5 = IARC 2B |
| 2 = NTP SUS | 4 = IARC 2A | 6 = OSHA CARC |

SECTION 12	ECOLOGICAL INFORMATION
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The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

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Material -- Expected to be persistent.

Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation:

Material -- Transformation due to atmospheric oxidation not expected to be significant.

BIOACCUMULATION POTENTIAL

Material -- Potential to bioaccumulate is low.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with state, federal, and local laws and regulations, and material characteristics at time of disposal.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

Additional regulatory information is available in the product-specific Product Safety Bulletins, as issued by Jindal.

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revised wording of Section 11 and Section 15.

THIS SDS COVERS THE FOLLOWING MATERIALS: BICOR 100ABX TM | BICOR 100CSR2 TM | BICOR 120CSR2 TM | BICOR 100LTSC TM | BICOR 60SLP TM | BICOR 75SLP TM | BICOR 100SLP TM | BICOR 120ABX TM | BICOR 120CSR2 TM | BICOR 120LTSC TM | BICOR 120SLP TM | BICOR MB344 TM | BICOR MB400 TM | BICOR MB440 TM | BICOR 18MAT TM | BICOR 220AB TM | BICOR 25ARW TM | BICOR 30ARW TM | BICOR 310AB TM | BICOR 380AB TM |

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BICOR 420HS TM | BICOR 50LBW TM | BICOR 60CSR2 TM | BICOR 70CSR^M TM | BICOR 70HSH TM | BICOR 70SLP TM | BICOR 75ABX TM | BICOR 75CSR2 TM | BICOR 84AOH TM | BICOR 85LTSC TM | BICOR BSRONE TM | BICOR 70MB TM | BICOR 90SPW TM | BICOR XRG2 TM | BICOR LPX2 TM | BICOR LPX-2 TM | BICOR WAXT TM | BICOR 25KW TM | BICOR 15MB840 TM | BICOR ES TM | BICOR MC550 TM | BICOR XRG2PT TM | BICOR AF TM | BICOR 55EBO TM | BICOR 306MWB TM | BICOR 440MWB TM

Jindal Films and its affiliates have prepared this Product Safety Data Sheet to provide health and safety information on our Films products. Such products may be considered “articles” for which a (Material) Safety Data Sheet is not required.

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