

Base Material EZReball™

Safety Data Sheet



Base Material EZReball™

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lead Free (LF) alloyed
Distributor: BEST Inc
3603 Edison Place
Rolling Meadows IL
(897) 797 9250



GHS Signal Word: Warning

SECTION 2: HAZARDS IDENTIFICATION

Routes of Entry: Inhalation, Ingestion, Skin/Eye Contact

Potential Health Effects

Eye Contact: Unlikely route of exposure.

Inhalation: Unlikely route of exposure.

Skin Contact: No irritation is expected from handling film. Less than 1 ppm dim ethyl acetamide was extracted from film by distilled water at 40°C for 4 hours

Ingestion: Unlikely route of exposure.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Diseases of the blood-forming organs, kidneys, nervous and possibly reproductive systems

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Unlikely route of exposure.

INHALATION: Unlikely route of exposure.

SKIN CONTACT: No irritation is expected from handling film. Less than 1 ppm dim ethyl acetamide was extracted from film by distilled water at 40°C for 4 hours

INGESTION: Unlikely route of exposure.

CARCINOGENICITY INFORMATION: None of the components present in this material at concentrations greater than or equal to 0.1 degrees are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Material: Inert Polyimide Film

Case Number: 100

Exposure limits for the following may apply:

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- DIMETHYL ACETAMIDE (residual in film)
- POLYIMIDE POLYMER (as nuisance dust)
Components Comments
- All reportable ingredients are listed in the TSCA Chemical Substance Inventory

SECTION 4: First aid measures

Inhalation:	Not a probable route of exposure.
Eye Contact:	Flush eyes with water. Consult a physician if an irritation persists.
Skin Contact:	Wash with soap and water after handling. If skin irritation develops, consult a physician.
Ingestion:	Not probable route of exposure.

SECTION 5: FIREFIGHTING MEASURES

Flammable Properties:	Not a fire or explosion hazard The flammability characteristic of polyimide film is reported as "self extinguishing" EZReball base material chars but does not burn in air. EZReball base material will burn in an atmosphere of 100% oxygen. The major gases given off are carbon dioxide and carbon monoxide. The processing of polyimide films can cause the generation of static charge. Precautions for static charges should also be taken when removing plastic films used as protective packaging for polyimide films.
Extinguishing Media:	Water, Foam, Dry Chemical, CO ₂
Fire Fighting Instructions:	None required

SECTION 6: ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)	NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) Sections before proceeding with clean up. Use appropriate PERSONAL PROTECTIE EQUIPMENT during clean up.
Accidental Release Measures:	Pick up to prevent slipping hazard.

SECTION 7: HANDLING AND STORAGE

Handling (Personnel):	Wash thoroughly after handling.
Storage:	Store away from flammable materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

- Safe handling of EZReball base material at high temperatures (above 200°C) requires adequate ventilation. If small quantities of EZReball base material are involved, normal air circulation may be all that is needed in case of overheating. Whether or not existing ventilation is adequate at higher temperatures will depend on the combined factors of film quantity, temperature and exposure time.

Ventilation:	See ENGINEERING CONTROLS section.
Respiratory Protection:	Respirators are not needed for normal use.
Skin Protection:	Special protective clothing is not needed for normal use. Gloves are recommended as good industrial practice.
Eye Protection:	Safety glasses are recommended as good industrial practice.

Exposure Guidelines

APPLICABLE EXPOSURE LIMITS

DIMETHYL ACETAMIDE (residual in film)

- PEL (OSHA)	: 10 ppm,	35mg/m3	8 Hr,	TWA,	Skin
- TLV (ACGIH)	: 10 ppm,	36 mg/m3	8 Hr,	TWA,	Skin, A4
- AEL (BEST)	: 10 ppm,	8 & 12 Hr,	TWA,	Skin	

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Polyimide Polymer (as nuisance dust)

- PEL (OSHA)	N/A				
- TLV (ACGIH)	N/A				
AEL* (BEST)	:10mg/m3,	8 Hr,	TWA,	total dust	
	:5mg/m3,	6 Hr,	TWA,	respirable dust	

- AEL is BEST's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits that are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Odorless
Melting Point:	None
Appearance:	Dark amber to Black
Solubility in Water:	Insoluble
% Volatiles	1% Max
Specific Gravity	>1.4

SECTION 10: STABILITY AND REACTIVITY

General:	Stable at normal temperatures and storage conditions.
Incompatible materials and Conditions to Avoid:	N/A
Hazardous Decomposition or Byproducts:	At temperatures above 400°C, the major off gases are carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity:	See Section 2: Hazards Identification
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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological Information

- Aquatic Toxicity	Film is Insoluble
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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Landfill or incinerate in compliance with federal, state and local regulations.
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SECTION 14: TRANSPORT INFORMATION

SHIPPING INFORMATION

DOT	Not Regulated
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SECTION 15: REGULATORY INFORMATION

STATE RIGHT-TO-KNOW

- NO SUBSTANCES ON THE STATE HAZARDOUS SUBSTANCES LIST, FOR THE STATES INDICATED BELOW, ARE USED IN THE MANUFACTURE OF PRODUCTS ON THIS MATERIAL SAFETY SHEET WITH THE EXCEPTIONS INDICATED.
- SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES):
 - **Dimethyl acetamide (1% maximum)**
- WARNING SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
 - **None Known**
- SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS, OR TERATOGENS):
 - **Dimethyl acetamide (1% maximum)**

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SECTION 16: OTHER INFORMATION

MEDICAL USE: Do not use in medical applications involving permanent implantation in the human body. The data in this Safety Data Sheet relate only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

RESPONSIBILITY FOR SDS: Best, Inc.

KEY:

N/A:	Not Applicable
GHS:	Global Harmonized System
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
ACGIH:	American Conference of Governmental Industrial Hygienists
TLV:	Threshold limit value
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
DOT:	Department of Transportation
TSCA:	Toxic Substance Control Act

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