



## SAFETY DATA SHEET

### Asia Pacific GHS Format

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#### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Trademark:</b>	LEXAN* Sheet
<b>Product Code:</b>	MR5E -112
<b>Product Description:</b>	Poly (bisphenol-A-carbonate) [CASRN 111211-39-3] Sheet or Film
<b>Product Type:</b>	Commercial Product
<b>Recommended use:</b>	May be used as received, processed or thermoformed to produce other articles, or as a component of other industrial products.
<b>Company:</b>	<p>SABIC Innovative Plastics Japan LLC. Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013 Japan SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai Ltd 16F,Plaza 66,No 1266 Nanjing Rd(W),Shanghai 200040 China(Contact address) SABIC Innovative Plastics Korea, Ltd. Donghoon Bldg, 20fl, 702-19, Yeoksam-Dong, Kangnam-Ku, Seoul, Korea SABIC Innovative Plastics Singapore Pte Ltd 23, Benoi Road, 629895 Singapore SABIC Innovative Plastics (Thailand) Co. Ltd 64/22 Moo 4 Tumbol Pluak Daeng, Amphur Pluak Daeng,Rayong 21140 Thailand SABIC Innovative Plastics India Ltd. Plastics Avenue, P.O. Jawaharnagar,District Vadodara 391320 India SABIC Innovative Plastics Taiwan Holding Limited, Room B,7F,No. 8,Min-Sheng E. Rd. Sec. 3,Taipei City 10480 Taiwan</p>
<b>Manufacturer:</b>	<p>SABIC Innovative Plastics 1 Lexan Lane Mt. Vernon, Indiana 47620 United States</p>
<b>Emergency Telephone Number:</b>	<p>Japan: +(81)-3-3593-4735 China: +86 532 83889090,+86 20 84980148 Singapore: +(65)-6210 4199 Korea: +(82)-2-510-6546 Thailand: +(66)-22312323-4 ext. 46, +(66)-38927000 ext. 7026 India: +(91)-265 3068554</p>
<b>Emergency Transportation/CHEMTREC (24 HOUR):</b>	<p>800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)</p>
<b>E-mail:</b>	Asiaproductinquiries@sabic-ip.com
<b>Website Address:</b>	www.sabic-ip.com

#### 2. HAZARDS IDENTIFICATION

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This product consists primarily of high molecular weight polymers which are not expected to be hazardous. According to UN Purple Book (special rules for Articles), this product is not classified for GHS and does not require a GHS label.

### EMERGENCY OVERVIEW:

- Plastic film or sheet
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

### HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

#### Skin Contact:

#### Eye Contact:

#### Inhalation:

#### Ingestion:

#### Other Information:

Not likely to cause irritation

Resin particles, like other inert materials, are mechanically irritating to eyes

Inhalation unlikely due to physical form

Ingestion unlikely due to physical form

Cool skin rapidly with cold water after contact with molten material

Heating can release hazardous gases Hazardous fumes can also occur in post-processing operations

### Chronic/Carcinogenic Information

#### Chronic Toxicity:

There are no toxicological hazards associated with this product.

#### Processing Issues:

Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin..

#### Aggravated Medical Conditions:

MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors..

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product Type

Article

This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.

## 4. FIRST AID MEASURES

#### If Inhalation:

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

#### On skin contact:

For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

#### On contact with eyes:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

#### On ingestion:

No hazards which require special first aid measures.

**Precautions:** Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

## 5. FIRE-FIGHTING MEASURES

**Autoignition Temperature:** Not applicable

**Suitable Extinguishing Media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).

**Unsuitable Extinguishing Media for Safety Reasons:** Do not use a solid water stream as it may scatter and spread fire.

**Hazards from Combustion Products:** Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.

**Specific Hazards:** Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operations such as cutting or grinding may form an explosive mixture in air.

**Special Protective Equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Exposure hazards:** Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See section 8.

**Environmental Precautions:** Dispose of in compliance with all Federal, state and local laws and regulations.

**Clean up:** Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

## 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practices Provide for appropriate exhaust ventilation and dust collection at machinery Avoid dust formation Accumulation of waste films, sheets and/or masking may create a slipping hazard

**Storage:** Keep away from heat sources and sources of ignition.

**Incompatible Products:** Strong acids, strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** No components with information, unless noted below

*\*SABIC Recommended Exposure Limits have been established for certain chemicals.*

<b>Engineering Measures to Reduce Exposure:</b>	Handle in accordance with good industrial hygiene and safety practice. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
<b>Hand Protection:</b>	Protective gloves should be worn
<b>Eye Protection:</b>	Safety glasses.
<b>Respiratory Protection:</b>	When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
<b>Body Protection:</b>	Long sleeved clothing
<b>Hygiene Measures:</b>	When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Sheet or film
<b>Color:</b>	Same as color code
<b>Odor:</b>	None or slight
<b>Melting point/range:</b>	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
<b>Flash Point:</b>	Not applicable
<b>Explosive Limits</b>	
<b>upper:</b>	Not applicable
<b>lower:</b>	Not applicable
<b>Vapor Pressure:</b>	Negligible
<b>Specific gravity:</b>	>1; (water = 1)
<b>Water Solubility:</b>	Insoluble
<b>Autoignition Temperature:</b>	Not applicable
<b>Explosive Properties:</b>	Dust may form explosive mixture in air
<b>Oxidising Properties:</b>	Not oxidising
<b>VOC content (%):</b>	Negligible

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not reactive under recommended conditions of handling, storage, processing and use.
<b>Stability:</b>	Stable.
<b>Polymerization:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Do not exceed maximum temperatures recommended in the product literature.
<b>Materials to Avoid:</b>	May react with strong oxidizing agents, strong acids or other highly reactive chemicals.

#### Hazardous Decomposition Products:

Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information:

LD50/oral/rat: >5000 mg/kg (estimated)  
LD50/dermal/rabbit: >2000 mg/kg estimated

#### Component Information:

Component Information Text: No data available

#### Other information on acute toxicity:

There are no toxicological hazards associated with this product

### Sensitization

Respiratory Sensitization: Not classified

### Irritation:

Eye Irritation: no data available

### Subchronic Toxicity (28 days)

Repeated Oral Toxicity(28d): No information available  
Repeated Dermal Toxicity(28d): No Information available  
Subchronic Toxicity: No information available

### Chronic Toxicity

Carcinogenicity: There are no known carcinogenic chemicals in this product except specifically mentioned below.

Mutagenic Effects: No data is available on the product itself  
Reproductive Toxicity: No information available  
Developmental Toxicity: No information available

Neurological effects: No information available

### Specific Target Organ Toxicity(STOT)

Target Organ Effects: Not established

### Aspiration Hazard

Aspiration Hazard Statement: No data available

### Other relevant toxicity information

IARC: Not listed  
OSHA: Not regulated  
NTP: Not tested

Remarks: The toxicological data has been taken from products of similar composition.

#### Special Studies:

Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace situations. No deaths or signs of toxicity, except transient irritancy in some cases, were noted during the 6 hour fume exposure tests. There were no distinct or consistent treatment related tissue or organ changes noted in gross necropsies

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component Information:

Product Information:

### Persistence and Degradability

Biodegradation:

Not inherently biodegradable

Partition coefficient (n-octanol/water)

Not established

### Bioaccumulative Potential:

Bioaccumulation:

Not established

### Mobility

Mobility:

May be separated mechanically in waste water plants.

### Other Adverse Effects

Ecotoxicity Effects:

Do not flush into surface water or sanitary sewer system.

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.

**Contaminated Packaging:**

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

**Waste Disposal:**

Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing vapor condensates and incinerator ash should be tested to determine waste classification.

## 14. TRANSPORT INFORMATION

IMO / IMDG

Not regulated

ICAO

Not regulated

IATA-DGR

Not regulated

DOT

Not regulated

ADR/RID

Not regulated

ADR

Not regulated

ADN

Not regulated

## 15. REGULATORY INFORMATION

### **International Inventories:**

Film and sheet products are articles, exempt from registration or notification in those countries that have national chemical inventories.

### **CERCLA/SARA 311/312/313:**

This product is a non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act).

### **Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### **WHMIS hazard class:**

Non-controlled

### **California Proposition 65:**

This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

### **RoHS EU Directive 2002/95/EC (and its amendments and directive 2011/65/EU):**

This product complies with RoHS - it does not intentionally contain banned chemicals.

## 16. OTHER INFORMATION

LEXAN\* Sheet is a trademark of SABIC Innovative Plastics IP BV

### SDS Scope:

China: Conforms to Chinese Regulation on the Control over Safety of Hazardous Chemicals (Decree No 591) and GHS standards GB15258,GB13698,GB/T16483 etc.

Japan: Conforms to Industrial Safety and Health Law, Japan (2006) and Industrial GHS Standards JIS Z7250, JIS Z7251

Korea: Conforms to Industrial Safety & Health Act, Ministry of Labor, Korea

Singapore: Conforms to Singapore workplace Safety and Health (WSH) Act, WSH Regulations, and GHS Standard 586

Taiwan: Conforms to Taiwan Rules on Hazard Communication and Labeling of Hazardous Substances, (Council of Labor Affairs, Taiwan) and GHS standards Z1051

Thailand: Conforms to Notification of the Ministry of Industry on the System of Classification and Hazard Communication of Hazardous Substances B.E. 2555 (2012)

This document is also applicable in other countries and regions.

**Prepared by:** Product Stewardship & Toxicology

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**End of Safety Data Sheet**