



## SAFETY DATA SHEET

### Asia Pacific GHS Format

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

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Trademark:</b>                                   | LEXAN™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Product Code:</b>                                | LUX9230T -NAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Description:</b>                         | Poly (bisphenol-A-carbonate) [CASRN 111211-39-3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Product Type:</b>                                | Commercial Product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Recommended use:</b>                             | May be used to produce molded or extruded articles or as a component of other industrial products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Company:</b>                                     | <p>-SABIC Innovative Plastics Japan LLC.<br/>Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013 Japan</p> <p>-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)</p> <p>-SABIC Innovative Plastics Korea, Ltd.<br/>Donghoon Bldg, 20fl, 702-19, Yeoksam-Dong, Kangnam-Ku, Seoul, Korea</p> <p>-SABIC Innovative Plastics Singapore Pte Ltd<br/>23, Benoi Road, 629895 Singapore</p> <p>-SABIC Innovative Plastics (Thailand) Co. Ltd<br/>64/22 Moo 4 Tumbol Pluak Daeng, Amphur Pluak Daeng,Rayong 21140 Thailand</p> <p>-SABIC Innovative Plastics India Ltd.<br/>Plastics Avenue, P.O. Jawaharnagar,District Vadodara 391320 India</p> <p>-SABIC Innovative Plastics Taiwan Holding Limited,<br/>Room B,7F,No. 8,Min-Sheng E. Rd. Sec. 3,Taipei City 10480 Taiwan</p> <p>-SABIC Innovative Plastics Hong Kong Limited.<br/>Flat/ RM 1701, Tower 1, The Gateway 25 Canton Road, Tsimshatsui, Hong Kong</p> |
| <b>Manufacturer:</b>                                | <p>SABIC Innovative Plastics China Co. Ltd.<br/>No: 1 Plastics Avenue, P.C. 511548<br/>Western Ind. District, Nansha ETDZ,<br/>Pan Yu, Guanndong<br/>China</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Emergency Telephone Number:</b>                  | <p>Japan: +(81)-3-3593-4735<br/>China: +86 532 83889090,+86 20 84980148<br/>Korea: +(82)-2-510-6546<br/>Singapore: +(65)-6210 4199<br/>Thailand: +(66)-22312323-4 ext. 46, +(66)-38927000 ext. 7026<br/>India: +(91)-265 3068554</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Emergency Transportation/CHEMTREC (24 HOUR):</b> | <p>800 424-9300 (USA)<br/>+1 703-527-3887 (globally, outside USA)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>E-mail:</b>                                      | Asiaproductinquiries@sabic-ip.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Website Address:</b>                             | www.sabic.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



## 2. HAZARDS IDENTIFICATION

The additives in this product are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.

Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

### Globally Harmonized System, UN(GHS) - Classification

#### GHS Category

**Not hazardous** • Not classified

#### GHS-Labeling

GHS Labeling not required

#### Precautionary Statements

No GHS specific Precautionary Statements required - observe all other warnings and handling instructions in this SDS.

**Other hazards which do not result in classification:**



#### **SABIC Emergency Overview**

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- 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.

#### **Other Information:**

OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz), respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions

#### **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**

Mixture

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:**

Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off immediately with soap and plenty of water. Consult a physician.

#### **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:** 630°C (1166°F) estimated

#### **Explosive Limits**

upper:

Not determined



lower: Not determined

|                                                           |                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media:</b>                      | 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.). |
| <b>Unsuitable Extinguishing Media for Safety Reasons:</b> | Do not use a solid water stream as it may scatter and spread fire.                                                                                                                                                                                                                  |
| <b>Hazards from Combustion Products:</b>                  | Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.                                                                                                                                                                 |
| <b>Specific Hazards:</b>                                  | Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.                                                                                         |
| <b>Special Protective Equipment for Firefighters:</b>     | Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products                           |
| <b>Exposure hazards:</b>                                  | 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

|                                   |                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions:</b>      | See section 8.                                                                                                              |
| <b>Environmental Precautions:</b> | Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.             |
| <b>Clean up:</b>                  | 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

|                               |                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b>              | Handle in accordance with good industrial hygiene and safety practices Provide for appropriate exhaust ventilation and dust collection at machinery Avoid dust formation All metal parts of the mixing and processing equipment must be earthed |
| <b>Storage:</b>               | Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry and well-ventilated place.                  |
| <b>Incompatible Products:</b> | Strong acids, strong oxidizing agents.                                                                                                                                                                                                          |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| <b>Exposure limits:</b> | 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. Provide for appropriate exhaust ventilation at machinery. 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 with side-shields or chemical goggles. In addition, use full-face shield when cleaning processing vapor condensates from hood, ducts, and other surfaces.                                                                                                                                                                                                                                                                                                                             |
| <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>               | Pellets                                                                                                      |
| <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>Evaporation Rate:</b>         | Negligible                                                                                                   |
| <b>Explosive Limits</b>          |                                                                                                              |
| <b>upper:</b>                    | Not determined                                                                                               |
| <b>lower:</b>                    | Not determined                                                                                               |
| <b>Vapor Pressure:</b>           | Negligible                                                                                                   |
| <b>Specific gravity:</b>         | >1; (water = 1)                                                                                              |
| <b>Water Solubility:</b>         | Insoluble                                                                                                    |
| <b>Autoignition Temperature:</b> | 630°C (1166°F) estimated                                                                                     |
| <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 under ambient conditions. Hazardous polymerization does not occur.           |
| <b>Polymerization:</b> | Hazardous polymerization does not occur.                                            |



**Conditions to Avoid:**

Avoid temperatures above 630°C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended periods of time.

**Materials to Avoid:**

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  
LD50/dermal/rabbit: >2000 mg/kg

**Component Information:**

Component Information Text: No data available

### Sensitization

Respiratory Sensitization: Not classified

### Irritation:

Eye Irritation: no data available  
Primary Irritation: Substance does not generally irritate and is only mildly irritating to the skin

### 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: No Information

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Component Information:

99.8514% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

#### 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 fume 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



## 14. TRANSPORT INFORMATION

**ADR/RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories:

|                         |            |
|-------------------------|------------|
| TSCA (USA):             | Listed     |
| DSL (Canada):           | Listed     |
| EINECS/ELINCS (Europe): | Listed     |
| ENCS (Japan):           | Listed     |
| IECSC (China):          | Listed     |
| KECL (Korea):           | Listed     |
| PICCS (Philippines):    | Listed     |
| AICS (Australia):       | Listed     |
| NZIoC (New Zealand):    | Not listed |

### Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

### SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

### SARA (313) Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA):

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA (311, 312) hazard class:

|                                   |   |
|-----------------------------------|---|
| Acute Health Hazard               | N |
| Chronic Health Hazard             | N |
| Fire Hazard                       | N |
| Sudden Release of Pressure Hazard | N |
| Reactive Hazard                   | N |

### 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):**

The subject product is in compliance with EU RoHS Directive 2002/95/EC (and its amendments and directive 2011/65/EU). All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.

**Remarks:**

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.

**HMIS Rating**

**Health: 0**

**Flammability: 1**

**Reactivity: 0**

**16. OTHER INFORMATION**

Brands marked with ® or ™ are trademarks of SABIC or affiliates

**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**