



## 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>	LF1010 - 83001
<b>Product Description:</b>	Polycarbonate [CASRN 25971-63-5] glass fiber filled
<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>	<ul style="list-style-type: none"><li>-SABIC Japan LLC. Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013 Japan</li><li>-SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai Ltd. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China (Contact address)</li><li>-SABIC Korea Ltd. 20F, Donghoon Building, 317, Teheran-ro, Seoul, Korea</li><li>-SABIC Innovative Plastics Singapore Pte Ltd 23, Benoi Road, 629895 Singapore</li><li>-SABIC Innovative Plastics (Thailand) Co. Ltd 64/22 Moo 4 Tumbol Pluak Daeng, Amphur Pluak Daeng, Rayong 21140 Thailand</li><li>-SABIC Innovative Plastics India Ltd. Plastics Avenue, P.O. Jawaharnagar, District Vadodara 391320 India</li><li>-SABIC Taiwan Holding Ltd, Taiwan Branch, Room B,7F, No. 8, Min-Sheng E. Rd. Sec. 3, Taipei City 10480 Taiwan</li><li>-SABIC Innovative Plastics Hong Kong Limited. Flat/ RM 1701, Tower 1, the Gateway 25 Canton Road, Tsimshatsui, Hong Kong</li><li>-SABIC Innovative Plastics (Aust.) Pty. Ltd. Suite 14, Building 3, 195 Wellington Road, Clayton, Victoria, Australia 3168</li></ul>
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<b>Emergency Transportation/CHEMTREC (24 HOUR):</b>	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
<b>E-mail:</b>	Asiaproducinquiries@sabic.com
<b>Website Address:</b>	Visit our public website to search, view and print Safety Data Sheets for commercial products:





## 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	630°C (1166°F) estimated
<b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	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.). Water spray mist or foam.
<b>Unsuitable Extinguishing Media for Safety Reasons:</b>	Do not use a solid water stream as it may scatter and spread fire, dry chemical, high volume water jet, Carbon dioxide (CO <sub>2</sub> ).
<b>Hazards from Combustion Products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments, brominated hydrocarbons.
<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>	In the event of fire, wear self-contained breathing apparatus.
<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 Handle in accordance with good industrial hygiene and safety practice for diagnostics
<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. Keep in a dry place. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from food and drink.
<b>Incompatible Products:</b>	Strong acids, strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Chemical Name	US OSHA PEL (8 Hr)	Japan OEL(TWA)	China OEL(TWA)	Korea OEL(TWA)	Singapore OEL(TWA)	Thailand OEL(TWA)
Fiberglass, EU/GHS classified 65997-17-3	No Information	1 FIBERS/ML	3 MGM3 fibers, total dust 3 MGM3 Total dust.	TWA: 1 mg/m <sup>3</sup> as W	PEL_LT: 1 mg/m <sup>3</sup> as W; PEL_ST: 3 mg/m <sup>3</sup>	No Information
Titanium dioxide 13463-67-7	FRL_TWA: 5 mg/m <sup>3</sup> Respirable fraction , 10 mg/m <sup>3</sup> Total dust ; TL_PEL: 5 mg/m <sup>3</sup> Respirable fraction , 15 mg/m <sup>3</sup> Total dust	1 MGM3 4 MGM3	8 MGM3 Total dust.	TWA: 10 mg/m <sup>3</sup>	PEL_LT: 10 mg/m <sup>3</sup>	No Information

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC Recommend (8 Hr)*
Fiberglass, EU/GHS classified 65997-17-3	No Information	PEL_TWA8: 1 mg/m <sup>3</sup> as W	No Information	No Information	No Information	No Information
Titanium dioxide 13463-67-7	No Information	PEL_TWA8: 10 mg/m <sup>3</sup>	PC: 10 mg/m <sup>3</sup>	No Information	15 MGM3	No Information

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

**Engineering Measures to Reduce Exposure:**

Handle in accordance with good industrial hygiene and safety practices. 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. Provide for appropriate exhaust ventilation at machinery. In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Wash thoroughly with soap and water after handling condensate or wipes and after cleaning the exhaust ventilation system. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Hand Protection:**

Protective gloves should be worn, Use gloves in accordance with EN 374 so that they protect against dust. Use for instance gloves from PVC , PVA or an other plastic. The breakthrough time for those materials for this product is not applicable, Wear suitable gloves and eye/face protection

**Eye Protection:**

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. Safety glasses with side-shields. (EU: NEN-EN 165-166).

**Respiratory Protection:**

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. In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment. (EU: NEN-EN149).

**Body Protection:**

Long sleeved clothing (EU: NEN-EN 340-369-465) (not required under normal use)

**Hygiene Measures:**

When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Pellets Granular
<b>Color:</b>	Same as color code Varies
<b>Odor:</b>	None or slight None
<b>Melting point/range:</b>	This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures. Various
<b>Boiling point/range:</b>	Not applicable
<b>Autoignition Temperature:</b>	630°C (1166°F) estimated
<b>Vapor Pressure:</b>	Negligible
<b>Vapor Density:</b>	Not determined
<b>Water Solubility:</b>	Insoluble
<b>Evaporation Rate:</b>	Negligible
<b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	Not determined
<b>Specific gravity:</b>	>1; (water = 1) 1.047 at 4°C
<b>VOC content (%):</b>	Negligible
<b>Remarks:</b>	Melting point/range

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not reactive under recommended conditions of handling, storage, processing and use. No information available.
<b>Stability:</b>	Stable under ambient conditions. Hazardous polymerization does not occur. Stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	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.
<b>Materials to Avoid:</b>	May react with strong oxidizing agents, strong acids or other highly reactive chemicals
<b>Hazardous Decomposition Products:</b>	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates, Traces of, carbon oxides, Heat, hydrocarbons, .?, hydrogen fluoride, carbonyl fluoride, perfluorohydrocarbon fragments, bromine, hydrogen bromide, brominated hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information:**

**LD50/oral/rat:** >5000 mg/kg (estimated)

**LD50/dermal/rabbit:** >2000 mg/kg

**Component Information:**

**Component Information Text:** No data available

**Other information on acute toxicity:**

Information given is based on data on the components and the toxicology of similar products

### 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 Skin irritation

### 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 above de minimus reporting levels, except as specifically mentioned below.

Chemical Name	IARC:
Fiberglass, EU/GHS classified 65997-17-3	3
Titanium dioxide 13463-67-7	2B

**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:**

Titanium Dioxide: The International Agency for Research on Cancer (IARC) has determined titanium dioxide to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Rats exposed to high doses of titanium dioxide by inhalation or intratracheal instillation showed an increased incidence of lung tumors. Thermal degradation of the fluoropolymer additives in this product may result in the release of pyrolysis products and fumes. Short term inhalation exposure may cause influenza-like symptoms such as chest pain/tightness, shortness of breath, sore throat, fever and chills, malaise and sometimes headache (also known as "polymer fume fever"). Following removal from exposure, complete resolution is expected within 12-48 hours. Prolonged and repeated exposure to high levels may lead to effects such as pulmonary edema and lung disease.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Component Information:**

**Product Information:**

**Other information:** Ecological damages are not known or expected under normal use.

**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

<b>Transport Classification:</b>	Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.
<b><u>IMO / IMDG</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA-DGR</u></b>	Not regulated
<b><u>DOT</u></b>	Not regulated
<b><u>ADR/RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories:

<b>TSCA (USA):</b>	Listed
<b>DSL (Canada):</b>	Listed
<b>EINECS/ELINCS (Europe):</b>	Listed
<b>ENCS (Japan):</b>	Listed
<b>IECSC (China):</b>	Listed
<b>KECL (Korea):</b>	Listed
<b>PICCS (Philippines):</b>	Listed
<b>AICS (Australia):</b>	Listed
<b>NZIoC (New Zealand):</b>	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:

<b>Acute Health Hazard</b>	N
<b>Chronic Health Hazard</b>	N
<b>Fire Hazard</b>	N
<b>Sudden Release of Pressure Hazard</b>	N
<b>Reactive Hazard</b>	N

### Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. Unless noted below, this product is non-controlled. Some classifications may not apply to the entire product.

### California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:
Fiberglass, EU/GHS classified 65997-17-3	5 - 10	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)
Titanium dioxide 13463-67-7	1-5	Listed: September 2, 2011 Carcinogenic. (airborne, unbound particles of respirable size)
4,4'-isopropylidenediphenol (bisphenol A) 80-05-7	≤100 ppm	Listed: May 11, 2015 Type of Toxicity: Female
Methylene chloride 75-09-2	≤10 ppm	Type of Toxicity: cancer

### RoHS EU Directive 2011/65/EU:

The subject product is in compliance with EU RoHS 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****Full text of H-Statements referred to under sections 2 and 3**

H351 - Suspected of causing cancer in contact with skin

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<http://eur.sabic-ip.com/ordeur/pages/msds/MSDSSearch.jsp?app=sabic-ip>

**SDS Scope:**

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

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 (2015) and Industrial GHS Standards JIS Z7253

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

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)

Australia: National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)]

This document is also applicable in other countries and regions.

**Prepared by:**

Product Stewardship & Toxicology

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**End of Safety Data Sheet**