



## MATERIAL SAFETY DATA SHEET Asia Pacific GHS Format

Print date: 19-Aug-2012

Revision Number: 5

Revision date: 01-Apr-2012

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Trademark:</b>	LEXAN*
<b>Product Name:</b>	FXG1413T -BK1D253G-PGSH
<b>Product Description:</b>	Polycarbonate/siloxane copolymer, p-CP endcapped [CASRN 202483-49-6]/Poly (bisphenol-A-carbonate) [CASRN 111211-39-3] blend
<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>	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 Innivative 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
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### 2. HAZARDS IDENTIFICATION

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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 MSDS.

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.



**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 practice. 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.

**Storage:** 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.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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

**Engineering Measures to Reduce Exposure:** 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.

**Hand Protection:** Protective gloves should be worn

**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.

**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.

**Body Protection:** Long sleeved clothing

**Hygiene Measures:** When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance:** Pellets  
**Color:** Same as color code  
**Odor:** None or slight  
**Odor Threshold:** No information available.  
**pH** Not applicable  
**Melting point/range:** This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.  
**Boiling point/range:** Not applicable

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Negligible
<b>Flammability (solid, gas):</b>	Blend; neither component is flammable
<b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	Not determined
<b>Vapor Pressure:</b>	Negligible
<b>Vapor Density:</b>	No information available
<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>Molecular Weight:</b>	Polymer
<b>VOC content (%):</b>	Negligible
<b>Surface tension:</b>	No data available

## 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
<b>Conditions to Avoid:</b>	Avoid temperatures above 320°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.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>Product Information:</b>	
<b>LD50/oral/rat:</b>	>5000 mg/kg
<b>LD50/dermal/rabbit:</b>	>2000 mg/kg
<b>Component Information:</b>	
<b>Component Information Text:</b>	No data available

### Sensitization

<b>Respiratory Sensitization:</b>	Not classified
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### 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:** No Information

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Component Information:**

99.90122901% 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

<u>IMO / IMDG</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA-DGR</u>	Not regulated
<u>DOT</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	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 - conditional or limited quantity approval
<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.

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

Section 313 of 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 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

**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:**

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:
Fibrous Glass 65997-17-3	0.01-0.10	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)

**RoHS EU Directive 2002/95/EC:**

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

**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**

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

**MSDS 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

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

This document is also applicable in other countries and regions.

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

**Prepared by:**

Product Stewardship & Toxicology.

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**End of Material Safety Data Sheet**