



## SAFETY DATA SHEET

### Asia Pacific GHS Format

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

<b>Trademark:</b>	THERMOCOMP™
<b>Product Code:</b>	AF002XXC -BK8114
<b>Product Description:</b>	Acrylonitrile-butadiene-styrene terpolymer [CASRN 9003-56-9] 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>	<p>SABIC 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. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China (Conact address) SABIC Korea, Ltd. 20F, Donghoon Building, 317, Teheran-ro, 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 Taiwan Holding Ltd, Taiwan Branch. Room B,7F,No. 8,Min-Sheng E. Rd. Sec. 3,Taipei City 10480 Taiwan SABIC Innovative Plastics Hong Kong Limited. Flat/ RM 1701, Tower 1, The Gateway 25 Canton Road, Tsimshatsui, Hong Kong</p>
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## 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

In 1995, the International Agency for Research on Cancer (IARC) concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black." IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (2B)." In 2006, IARC re-affirmed this classification. There has been no causal link between carbon black exposure and cancer risk in humans. Applying the rules of the Globally Harmonized System of Classification and Labelling (GHS, e.g. UN 'Purple Book', EU CLP Regulation) the results of repeated dose toxicity and carcinogenicity studies in animals do not lead to classification of Carbon Black for Specific Target Organ Toxicity (Repeated exposure) and carcinogenicity. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans. The European CLP Regulation also mentions, that no classification is indicated if the mechanism is not relevant to humans. Furthermore, the CLP guidance on classification and labelling states, that "lung overload" in animals is listed under mechanism not relevant to humans.

#### 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:**

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. 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

#### **Hazardous Components**

Chemical Name	CAS Number	Weight %	ELINCS / EINECS-No.:
FIBERGLASS	65997-17-3	10-30	266-046-0
Carbon black	1333-86-4	0.1-1.0	2156099

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:** No information available

**Explosive Limits**

**upper:** Not determined  
**lower:** Not determined

**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, hydrogen cyanide, nitrogen oxides.

**Specific Hazards:** 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.

**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:** Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

**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 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

Chemical Name	US OSHA PEL (8 Hr)	Japan OEL(TWA)	China OEL(TWA)	Korea OEL(TWA)	Singapore OEL(TWA)	Thailand OEL(TWA)
FIBERGLASS 65997-17-3	No Information	1 FIBERS/ML	3 mg/m <sup>3</sup> fibers, total dust 3 mg/m <sup>3</sup> 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
Carbon black 1333-86-4	FRL_TWA: 3.5 mg/m <sup>3</sup> ; TL_PEL: 3.5 mg/m <sup>3</sup>	OEL_M: 4 mg/m <sup>3</sup> Total dust, 1 mg/m <sup>3</sup> Respirable dust	1	TWA: 3.5 mg/m <sup>3</sup>	PEL_LT: 3.5 mg/m <sup>3</sup>	No Information

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC Recom'd. (8 Hr)*
FIBERGLASS 65997-17-3	No Information	PEL_TWA8: 1 mg/m <sup>3</sup> as W	No Information	No Information	No Information	No Information
Carbon black 1333-86-4	No Information	PEL_TWA8: 3.5 mg/m <sup>3</sup>	PC: 3.5 mg/m <sup>3</sup>	No Information	3.5 mg/m <sup>3</sup>	No Information

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

**Engineering Measures to Reduce Exposure:** In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. 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

**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

**Melting point/range:** This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.

**Flash Point:** Not applicable  
**Evaporation Rate:** Negligible  
**Explosive Limits upper:** Not determined



**lower:** Not determined  
**Vapor Pressure:** Negligible  
**Specific gravity:** >1; (water = 1)  
**Water Solubility:** Insoluble  
**Autoignition Temperature:** No information available

**Explosive Properties:** Dust may form explosive mixture in air  
**Oxidising Properties:** Not oxidising  
**VOC content (%):** Negligible

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under recommended conditions of handling, storage, processing and use.

**Stability:** Stable under ambient conditions. Hazardous polymerization does not occur.

**Polymerization:** Hazardous polymerization does not occur.

**Conditions to Avoid:** 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, styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethyl benzene, cumene, alpha methylstyrene, 4-vinylcyclohexene, phenols.

## 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

### Sensitization

**Respiratory Sensitization:** Not classified

### Irritation:

**Eye Irritation:** no data available



**Primary Irritation:**

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 except specifically mentioned below.

Chemical Name	IARC:
FIBERGLASS 65997-17-3	3
Carbon black 1333-86-4	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:

**Styrene:** A reproduction study in rats exposed to 125 and 250 ppm in drinking water (approximately 14-21 mg/kg/day) produced no treatment-related effects on reproductive performance over 3-generations. The only treatment related findings were reduced pup survival index in the F1 and F2 offspring. There was no evidence of developmental effects and no other effects were reported. The parental NOEL was 250 ppm and the NOEL for the F1 and F2 offspring was 125 ppm. In developmental toxicity studies in rats, rabbits, and hamsters styrene was not a selective toxicant to the fetus and was toxic at only those doses that produced maternal toxicity.

In humans, styrene is associated with central nervous system depression (headache, fatigue, nausea, and dizziness) at inhalation concentrations greater than 50 ppm. Styrene has also been reported to reduce sensory nerve conduction in occupation settings after exposure to 100 ppm or more. Styrene has also been reported to produce color vision deficiencies (dyschromatopsia) at concentrations greater than 8 ppm (averaging 24 ppm). Twelve epidemiology studies have been reported for styrene and half have supported the hypothesis that styrene produces lymphatic and hematopoietic cancers (LHC). However, those that show an increase of LHC has generally been small in size (limited statistical power), have shown no dose-response relationship, and/or had multiple chemical exposures. Of the six studies that have not shown an association with styrene and LHC, these studies tended to be larger in size (higher statistical power), had an older study population, and had good exposure data. Overall, the weight of evidence suggests that there is not an association of LHC and styrene exposure in humans.

In a recent inhalation cancer bioassay, Sprague Dawley derived rats (70/sex/group) were exposed whole body to styrene vapor at 0, 50, 200, 500, or 1000 ppm 6 h/day 5 days/week for 104 weeks. Males exposed to 500 and 1000 ppm and females exposed to 200 ppm and higher gained significantly less weight than the controls. There were no changes of toxicologic significance in hematology, clinical chemistry, urinalysis, or organ weights. Styrene-related non-neoplastic histopathologic changes were confined to the olfactory epithelium of the nasal mucosa. The incidence and severity were related to dose. There was no evidence that styrene exposure caused treatment related increases of any tumor type in males or females or in the number of tumor bearing rats in the exposed groups compared to controls. In 2-year carcinogenicity bioassays conducted by the National Toxicology Program, rats and mice (50/sex/group) received 0, 500, 1000, or 2000 mg/kg/day and 0, 150, or 300 mg/kg/day, respectively, via oral gavage. In male or female rats and female mice there was no significant difference in tumor incidence when compared to the control groups. In male mice there was a positive association between styrene dose and the incidence of the combination of adenomas and carcinomas of the lung. However, due to the high background incidence of this tumor type in male mice, no firm conclusion was drawn for the carcinogenicity. In a study that administered styrene (125 and 250 ppm) in the drinking water of rats for 2 years, there was no evidence of carcinogenicity. In other chronic inhalation toxicity studies, rats were exposed to styrene via inhalation at concentrations up to 300 ppm for 4-6 hours/day, 5 days/week, for 1 year or up to 1000 ppm for 2 years. There was a slightly increased, but not statistically significant, incidence of mammary tumors in the females in both studies. Because the control incidence was also high and there was no dose-response relationship the studies were considered to be negative.

**Carbon Black:** The International Agency for Research on Cancer (IARC) has determined that carbon black is a class 2B known animal and possible human carcinogen by the route of inhalation. Rats exposed to high doses of carbon black by inhalation developed statistically significant increases in lung fibrosis and lung tumors.

**Carbon Black:** The scientific discussions about the carcinogenic potential of inorganic low solubility particles (fine dust) including carbon black has not been concluded. Many inhalation toxicologists believe the lung fibrosis and tumors that developed in rats following exposure to carbon black result from massive accumulation of small dust particles that overwhelm the clearance mechanism and produce what is termed "lung overload," an effect considered to be rat specific and not relevant to humans. In addition, based on epidemiological studies, no causal link between carbon black exposure and cancer risk in humans has been demonstrated.

**Fibrous Glass:** The International Agency for Research on Cancer (IARC) has determined special-purpose fibrous glass to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Chronic exposure of rats by inhalation to high levels of E-





glass fiber resulted in significant increases in lung tumors and mesotheliomas.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Component Information:

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Toxicity to Fish	Toxicity to Algae	Daphnia Magna (Water Flea)	Toxicity to Microorganisms
FIBERGLASS 65997-17-3	No data available	No data available	No data available	No data available
Carbon black 1333-86-4	No data available	No data available	No data available	No data available

#### 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

<b>ADR/RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories:

<b>TSCA (USA):</b>	Listed
<b>DSL (Canada):</b>	Listed
<b>EINECS/ELINCS (Europe):</b>	Not listed
<b>ENCS (Japan):</b>	Not 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 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:
Carbon black 1333-86-4	0.1-1.0	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)



FIBERGLASS 65997-17-3	10-30	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)
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**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.

**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**