

MATERIAL SAFETY DATA SHEET

Asia Pacific GHS Format

Print date: 14-Dec-2010

Revision Number: 8

Revision date: 13-Dec-2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name: SABIC® PC

Product Name: PC1500 -GC9AT-KSA

Product Description: BisphenolA-polycarbonate(CASRN 25929-04-8)

Product Type: Commercial Product

Recommended use: May be used to produce molded or extruded articles or as a component of other industrial products.

Company:
SABIC
Kingdom of Saudi Arabia Box: 5101
Zip code: 11422

Manufacturer:
Saudi Kayan (Sabic affiliate)
Kingdom of Saudi Arabia
Jubail Industrial City
Po. Box: 10302
Zip code: 31961

2. HAZARDS IDENTIFICATION

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: 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

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 condenses 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

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION.

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: Cool molten product on skin with plenty of water. Do not remove solidified product. Do not peel polymer from the skin.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray mist or foam.

Unsuitable extinguishing Media for safety reasons: Carbon dioxide (CO₂), dry chemical.

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

Specific Hazards: Take precautionary measures against static discharges. 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 (NEN-EN137).

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. 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 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.

Incompatible Products: Strong acids, strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

SABIC limit *SABIC Innovative Plastics 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. Provide for appropriate exhaust ventilation at machinery.

Hand Protection: Protective gloves should be worn, NEN-EN 374

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

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

Body Protection: Long sleeved clothing (NEN-EN 340-369-465).

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Pellets

Color: Varies

Odor: None

Odor Threshold: No information available.

pH Not applicable

Melting point/range: Various

Boiling point/range: Not applicable

Flash Point: Not applicable

Evaporation Rate: Negligible

Flammability (solid, gas): Blend; neither component is flammable

Explosive Limits

upper: Not determined

lower: Not determined

Vapor Pressure: Negligible

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density:	No information available
Specific gravity:	>1; (water = 1)
Water Solubility:	Insoluble
Autoignition Temperature:	630°C (1166°F) estimated
Explosive Properties:	Dust may form explosive mixture in air
Oxidising Properties:	Not oxidising
Molecular Weight:	Polymer
VOC content (%):	Negligible
Surface tension:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under recommended conditions of handling, storage, processing and use.
Stability:	Stable under ambient conditions. Hazardous polymerisation does not occur.
Polymerization:	Hazardous polymerization does not occur
Conditions to Avoid:	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.
Materials to Avoid:	May react with strong oxidizing agents, strong acids or other highly reactive chemicals.
Hazardous Decomposition Products:	Traces of phenol, alkylphenols, diarylcarbonates, hydrocarbons.

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

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:

100% of the mixture consists of component(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

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

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:

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:

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

SABIC® PC is a registered trademark of SABIC Innovative Plastics IP BV

Prepared by: Product Stewardship & Toxicology.

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End of Material Safety Data Sheet