



MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

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|---|---|
| Trade Name: | SABIC® PC |
| Product Name: | PC4800-GC9AN |
| 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 |
| Emergency Telephone Number: | KSA +966(01) 225-9189/8698 Bergen op Zoom +31(0)164-292911 (24/24) |
| Emergency Transportation/CHEMTREC (24 HOUR): | 800/424-9300 |
| E-mail: | webinquiries@sabic-ip.com |

2. COMPOSITION/INFORMATION ON INGREDIENTS

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.

3. HAZARDS IDENTIFICATION

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.

HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

Skin Contact:

Not a hazard with pellets during normal industrial use.

Eye Contact:

Resin particles, like other inert materials, are mechanically irritating to eyes.

Inhalation:

Pellet inhalation unlikely due to physical form.

Ingestion:

Pellet ingestion unlikely due to physical form.

Sensitization:

No information available on this product

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.

Chronic/Carcinogenic Information

Chronic Toxicity:

No information available

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.

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

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|---|---|
| Autoignition Temperature: | 630°C (1166°F), estimated |
| Explosive Limits | |
| upper: | Not determined |
| lower: | Not determined |
| Suitable Extinguishing Media: | Water spray mist or foam. |
| Unsuitable extinguishing Media for safety reasons: | Carbon dioxide (CO ₂), dry chemical. |
| Hazards from Combustion Products: | Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments. |
| Special Protective Equipment for Firefighters: | In the event of fire, wear self-contained breathing apparatus (NEN-EN137). |
| 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. |

6. ACCIDENTAL RELEASE MEASURES

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|-----------------------------------|---|
| Clean up: | Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air. |
| Personal Precautions: | See section 8. |
| Environmental Precautions: | Do not flush into surface water or sanitary sewer system. Should not be released into the environment. |

7. HANDLING AND STORAGE

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| 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. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

**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 |
| Melting point/range: | Various |
| Autoignition Temperature: | 630°C (1166°F) estimated |
| Vapor Pressure: | Negligible |
| Water Solubility: | Insoluble |
| Evaporation Rate: | Negligible |
| Specific gravity: | >1; (water = 1) |
| VOC content (%): | Negligible |
| Explosive Limits | |
| upper: | Not determined |
| lower: | Not determined |

10. STABILITY AND REACTIVITY

Stability: Stable under ambient conditions. Hazardous polymerisation 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.

Hazardous Decomposition Products: Traces of phenol, alkylphenols, diarylcarbonates, hydrocarbons.

Incompatible Products: Strong acids, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|----------------------|---|
| LD50/oral/rat: | >5000 mg/kg |
| LD50/dermal/rabbit: | >2000 mg/kg |
| Inhalation: | Pellet inhalation unlikely due to physical form. |
| Eye Contact: | Resin particles, like other inert materials, are mechanically irritating to eyes. |
| Skin Contact: | Not a hazard with pellets during normal industrial use. |
| Ingestion: | Pellet ingestion unlikely due to physical form. |
| Chronic Toxicity: | No information available |
| Subchronic Toxicity: | No information available |
| Primary Irritation: | Substance does not generally irritate and is only mildly irritating to the skin. |
| 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

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| Ecotoxicity Effects: | Do not flush into surface water or sanitary sewer system. |
| Other information: | Ecological damages are not known or expected under normal use. |

13. DISPOSAL CONSIDERATIONS

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| 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. |
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14. TRANSPORT INFORMATION

Transport Classification:

Not regulated as hazardous for shipment, unless noted below,
under current transportation guidelines.

DOT

ADR/RID/ADNR

IMDG

ICAO

IATA-DGR

MEXICO

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 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.

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