SAFETY DATA SHEET

1. IDENTIFICATION

SABIC® PP	:	Trademark
310MK10-00900	:	Product name
22129375	:	Product code
Poly (propylene-ethylene) [CASRN 9010-79-1]	:	Product description
May be used to produce molded or extruded articles or as a component of other industrial products.Manufacture of plastics products, including compounding and conversion	:	Recommended use
For industrial use only.	:	Restrictions on use
SABIC P.O. Box 5101 Riyadh 11422 Kingdom of Saudi Arabia Telephone: +966 (011) 225 8000	:	Supplier
Bergen op Zoom +31(0)164-292911 (24/24) ; +1 703-527-3887 (globally, outside USA)	:	Emergency SABIC Telephone #
CHEMTREC, U.S. : (800) 424-9300 International: +1 (703) 527-3887	:	Emergency Transportation #
sds.info@sabic.com	:	E-mail address

2. HAZARDS IDENTIFICATION

GHS Remark

The additives in this product (if any) 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. 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. 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.

Other hazards which do not result in classification

None known.

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.

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 Condition
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

Mixture **:Substance / Mixture**

Mixture **:Chemical nature**

Components
No hazardous ingredients

4. FIRST AID MEASURES

General advice
Thermal decomposition can lead to release of irritating gases and vapours.
Move the victim to fresh air.
Obtain medical attention.

If inhaled
Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.

In case of skin contact
After contact with skin, wash immediately with plenty of cold water.
Wash off immediately with soap and plenty of water.
Consult a physician.
If skin irritation persists, call a physician.

In case of eye contact
Immediately flush eye(s) with plenty of water.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, consult a specialist.

If swallowed
Negligible or unlikely exposure pathways
If accidentally swallowed obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed
None known.

Notes to physician
No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media
Use dry chemical, CO2, 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
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Material is not sensitive to mechanical impact.

Hazardous combustion products
Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.
No hazardous combustion products are known

Specific extinguishing methods
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 vapours.

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
Stay upwind/ keep distance from source.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Take precautionary measures against static discharges.

Environmental precautions
Do not flush into surface water or sanitary sewer system.
Should not be released into the environment.
SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.

Methods and materials for containment and cleaning 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

Advice on safe 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.
Open containers only in well-ventilated area.

Conditions for safe storage
Keep tightly closed in a dry and cool place.
Keep away from heat and sources of ignition.
Residual monomer vapors can accumulate in the headspace of closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Engineering measures
Handle in accordance with good industrial hygiene and safety practice.
Provide 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.

Personal protective equipment

Respiratory protection
Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours.
If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.
No personal respiratory protective equipment normally required.

Hand protection

Material
Wear protective gloves.

Eye protection
Safety glasses with side-shields
Chemical resistant goggles must be worn.

Skin and body protection
Long sleeved clothing

Protective measures
Wear suitable protective equipment.

Hygiene measures
Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
pellets

Colour
natural

Odour
none or slight

Odour Threshold
No information available.

pH
No data available

Melting point/ range
140 - 170 °C

Decomposition starting from 300°C (592°F) :Decomposition

Flammability (liquids)
Remarks: No information available.

Vapour pressure
negligible

Relative vapour density
not determined

Relative density
>1 (water = 1)

Density
0.905 - 0.930 g/cm3

Solubility(ies)

Water solubility
insoluble

Solubility in other solvents
not determined

Partition coefficient: n-octanol/water
No information available.

Auto-ignition temperature
> 350 °C

Decomposition temperature
Decomposition starting from 300°C (592°F)

Viscosity

Viscosity, dynamic
Not applicable

Viscosity, kinematic
Not applicable

Explosive properties
Not applicable

10. STABILITY AND REACTIVITY

Reactivity
Stable under recommended storage conditions.

Chemical stability
Stable at normal ambient temperature and pressure.
Hazardous polymerisation does not occur.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Conditions to avoid
To avoid thermal decomposition, do not overheat.
Heating can release hazardous gases.
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.

Incompatible materials

No special restrictions on storage with other products.

Hazardous decomposition products
No hazardous decomposition products are known.

Hazardous decomposition products
Process vapors under recommended processing conditions may include trace levels of hydrocarbons, carbon oxides, aldehydes, alcohols, organic acids

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity
:Remarks
>5000 mg/kg (estimated)

Acute dermal toxicity
:Remarks
>2000 mg/kg (estimated)

Skin corrosion/irritation

Experience with human exposure

Product:

Inhalation
:Remarks
Inhalation unlikely due to physical form. Processing fumes evolved at recommended conditions may contain trace amounts of hazardous chemicals. Extreme processing conditions or temperatures may result in higher levels. 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 duct work, molds, and other surfaces can cause irritation and injury to skin.

Skin contact
:Remarks
Not a hazard during normal industrial use. If present, some additives (like glass fiber or flame retardants) may cause skin irritation in susceptible persons.

Eye contact
:Remarks
Resin particles, like other inert materials, are mechanically irritating to eyes.

Ingestion
:Remarks
Ingestion unlikely due to physical form.

Further information

Product:
:Remarks
The toxicological data has been taken from products of similar composition.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:

Additional ecological information
Do not flush into surface water or sanitary sewer system.
Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues
Waste must be classified and labelled prior to recycling or disposal.
Where possible recycling is preferred to disposal or incineration.
SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Contaminated packaging
Where possible recycling is preferred to disposal or incineration.
Can be landfilled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to IMO instruments
Not applicable for product as supplied.

15. REGULATORY INFORMATION

SABIC is disclosing information on minor components in section 15 that, to the best of our knowledge, are based upon data from our raw material suppliers or manufacturers. Note that analysis of the raw materials and/or SABIC products for presence of these or other chemicals on a routine basis is neither part of our quality control plan, nor is it a part of our product specifications, and hence it shall not be construed as any warranty, expressed or implied. Chemical(s)

listed in this section can be considered to be present with a concentration below 0.1 (% w/w), unless also appearing in section 3 where a higher concentration range may be displayed.

Further, this does not exclude presence of negligibly slight traces of other chemicals due to, amongst others, impurities or residuals in the components supplied by external parties and/or used in the production of such components. It is the responsibility of the manufacturer or seller to confirm and establish compliance of the final product with local/country regulatory requirements. The information provided here is current as of the date of this document, based on data available to SABIC.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Other international regulations

The components of this product are reported in the following inventories:

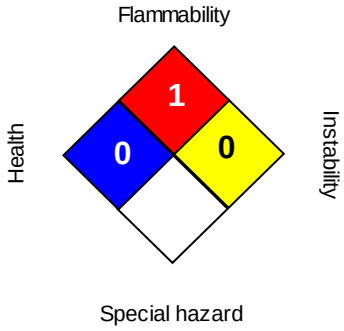
:TCSI(Taiwan) : : : :On the inventory, or in compliance with the inventory
:TSCA(USA) : : : :All substances listed as active on the TSCA inventory
:AIIC(Australia) : : : :On the inventory, or in compliance with the inventory
:DSL(Canada) : : : :All components of this product are on the Canadian DSL
:ENCS(Japan) : : : :On the inventory, or in compliance with the inventory
:KECI(Korea) : : : :On the inventory, or in compliance with the inventory
:PICCS(Philippines) : : : :On the inventory, or in compliance with the inventory
:IECSC(China) : : : :On the inventory, or in compliance with the inventory
:NZIoC(New Zealand) : : : :On the inventory, or in compliance with the inventory
:REACH(European Union) : : : :If purchased in Europe, complies with No 1907/2006 (REACH) or is exempted. If not, please contact Supplier/Importer.
:CH INV(Switzerland) : : : :Exempted as long as EU-REACH conditions are met. For further information, please contact: Manufacture, Importer, Supplier.
:CCA/ARECS : : : :If purchased in S. Korea, complies with K-REACH or is exempted. If not, please contact Supplier/Importer.
:CICR(Türkiye) : : : :For further information, please contact: Manufacturer, importer, supplier

16. OTHER INFORMATION

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates. : Reason for revision

Product Stewardship : Prepared by

:NFPA



:HMIS III

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Disclaimer

This Safety Data Sheet (SDS) information is provided based on the hazard communication regulations for the region or country in which the purchaser is located and for the use of the persons required to receive this information under those regulations. The information is neither designed nor recommended for any other use or for use by any other person, including for compliance with other laws. This SDS is valid and applicable only to this product as initially sold

by us. This SDS is not valid unless it has been obtained directly from Saudi Basic Industries Corporation or any of its affiliates, or posted or viewed on a SABIC website. Modification of this SDS, unless specifically authorized by us, is strictly prohibited. This SDS is based on information that is believed to be reliable at the date of its issuance, but may be subject to change as new information becomes available. Because it is not possible to anticipate all conditions of use, each purchaser and user of this product is responsible for making its own determination as to: (i) the safe and proper handling of this product in its own particular use of this material; and (ii) the suitability of this product for the user's particular use. THE INFORMATION SET FORTH HEREIN DOES NOT CONSTITUTE OR CREATE ANY REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND DOES NOT ALTER OUR STANDARD CONDITIONS OF SALE.

NFPA/HMIS disclaimer

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety., Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk., Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

AE / EN

End of Safety Data Sheet