



## SAFETY DATA SHEET

### North America U.S. GHS Format

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

<b>Trademark:</b>	SABIC® PMMA
<b>Product Name:</b>	P20MH
<b>Product Description:</b>	Poly(methyl methacrylate-methyl acrylate) [CASRN 9011-87-4]
<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>	Saudi Basic Industries Corporation P.O. Box 5101 Riyadh 11422 Saudi Arabia
<b>Manufacturer:</b>	SABIC P.O. Box 5101 Riyadh 11422 Saudi Arabia
<b>Emergency Telephone Number:</b>	KSA +966 (01) 225-8000
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<b>Website Address:</b>	<a href="http://www.sabic.com">www.sabic.com</a>

## 2. HAZARDS IDENTIFICATION

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.

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.

### Classification

#### **OSHA Regulatory Status**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS-Labeling

#### **Emergency Overview**

#### **Not classified**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance:** Granules

**Physical State:** Solid

**Odor:** Characteristic

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other Information**

Not applicable

Other hazards that do not result in classification:

#### **SABIC Emergency Overview**

- Granules 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 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

The non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.

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:** 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

**Autoignition Temperature:** >400°C

**Explosive Limits**

<b>upper:</b>	Not determined
<b>lower:</b>	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.

**Special Protective Equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus (EU: 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

<b>Clean up:</b>	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
<b>Personal Precautions:</b>	See section 8. If spilled, take caution, as material can cause surfaces to become very slippery.
<b>Environmental Precautions:</b>	Do not flush into surface water or sanitary sewer system Material should not be released into the environment
<b>Other information</b>	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.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practices. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
<b>Storage:</b>	Store in a dry and cool area. Keep away from heat sources and sources of ignition. Keep away from direct sunlight.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

*\* 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 practices. Provide for appropriate exhaust ventilation at machinery.

**Hand Protection:** Protective gloves should be worn, (EU: NEN-EN 374), When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten resin

**Eye Protection:** Safety glasses with side-shields. (EU: 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. (EU: NEN-EN149).

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	Translucent
<b>Odor:</b>	Characteristic
<b>Melting point/range:</b>	155 - 165 °C
<b>Boiling point/range:</b>	decomposition starting from 300°C
<b>Autoignition Temperature:</b>	>400°C
<b>Vapor Pressure:</b>	Negligible
<b>Density:</b>	1.19 g/cm <sup>3</sup>
<b>Water Solubility:</b>	Insoluble
<b>Evaporation Rate:</b>	Negligible
<b>Explosive Limits</b>	
<b>upper:</b>	Not determined
<b>lower:</b>	Not determined
<b>VOC content (%):</b>	Negligible

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ambient conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Avoid temperatures above 300°C. 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>Hazardous Decomposition Products:</b>	Process vapors under recommended processing conditions may include trace levels of hydrocarbons, carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

<b>LD50/oral/rat:</b>	>5000 mg/kg
<b>LD50/dermal/rabbit:</b>	>2000 mg/kg
<b>Inhalation:</b>	Granule inhalation unlikely due to physical form.
<b>Eye Contact:</b>	Resin particles, like other inert materials, are mechanically irritating to eyes.
<b>Skin Contact:</b>	Not a hazard with granules during normal industrial use.
<b>Ingestion:</b>	Granule ingestion unlikely due to physical form.
<b>Chronic Toxicity:</b>	No information available.
<b>Subchronic Toxicity:</b>	No information available
<b>Primary Irritation:</b>	Substance does not generally irritate and is only mildly irritating to the skin.
<b>Remarks:</b>	The toxicological data has been taken from products of similar composition.
<b>Special Studies:</b>	No Information

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	Ecological damages are not known or expected under normal use. Small particles can have an effect on water and soil organisms.
<b>Other information:</b>	none.

### 13. DISPOSAL CONSIDERATIONS

**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.

**Other information** 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.

### 14. TRANSPORT INFORMATION

**Transport Classification:** Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR

MEXICO

CANADA/TDG

## 15. REGULATORY INFORMATION

Further regulatory information can be requested via your local sales office.

### 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
<b>AICS (Australia):</b>	Listed
<b>NZIoC (New Zealand):</b>	Listed
<b>REACH Information:</b>	For this product's REACH related information, please contact sds.info@sabic.com

### 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.

### HMIS Rating

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

## 16. OTHER INFORMATION

**SABIC® and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.**

### **SDS Scope:**

USA: Conforms to 29 CFR 1910.1200 (2012 OSHA Hazard Communication Standard)

Mexico: Conforms to NOM-018-STPS-2015

This document is also applicable in other countries and regions.

**Prepared by:** Product Stewardship & Toxicology

**DISCLAIMER:** The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is meant as a guideline for safe use, handling, disposal, storage and transport of products and does not imply any warranty (not implied nor explicitly) or specification. The Supplier shall to the extent permitted by law not be liable for any error or incorrectness in the information contained in this Safety Data Sheet. The information relates exclusively to the specified products, which may not be suitable for combination with other materials or use in processes other than those specifically described here.

**End of Safety Data Sheet**