

# SAFETY DATA SHEET

according to US-Regulation 29 CFR 1910.1200 (HCS), as ammended



## Polypropylene Homopolymer OP001

Version / Revision 3  
Supersedes Version 2.00\*\*\*

Revision Date 17-May-2021  
Issuing date 17-May-2021

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

## Polypropylene Homopolymer

Synonyms

HP3104K / HP2100N / HP2100S / HP5101R / HP5101RC / HP5101SC /  
HP4102M / HP1151K / HP4128N / HP5101LC / HP2151T / HP1102LC /  
HP1102K\*\*\*

Product form

Mixture

CAS-No

9003-07-0

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Industrial / Professional use  
spec

Industrial  
For professional use only

Identified uses

Industrial processing & uses

Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Company/Undertaking  
Identification

**OQ Refineries and Petroleum Industries, L.L.C.**  
OQ Muscat office (HQ), Muscat Grand Mall  
Muscat, 118  
Oman

**OQ Marketing, L.L.C.**  
PO Box 3568  
PC 112 Ruwi, Muscat, Sultanate of Oman  
T +968 22144274 / +968 91999088  
polymers@oq.com - www.oq.com\*\*\*

### 1.4. Emergency telephone number

Emergency telephone number NCEC +1 202 464 2554  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This mixture is not hazardous in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

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OSHA Specified Hazards Not applicable.

## 2.2. Label elements

Not required according to §1910.1200 (GHS-US labeling).

## 2.3. Other hazards

Dust can form an explosive mixture in air  
Eye mechanical irritation is possible  
Polymers are not expected to be hazardous to the environment

## SECTION 3: Composition / information on ingredients

3.1. Substances not applicable

## 3.2. Mixtures

Component	CAS-No	Concentration (%)
Polypropylene	9003-07-0	> 99
Non-hazardous additives	-	< 1

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

#### Inhalation

If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow the victim to rest.

#### Skin

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. After contact with the molten product, cool rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.

#### Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Ingestion

Rinse mouth. If you feel unwell, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

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## **Symptoms/effects after inhalation**

Inhalation of vapors may cause respiratory irritation.

## **Symptoms/effects after skin contact**

Risk of thermal burns on contact with molten product.

## **Symptoms/effects after eye contact**

Causes serious eye irritation.

## **Symptoms/effects after ingestion**

Risk of thermal burns on contact with molten product. May be a choking hazard.

## **4.3. Indication of any immediate medical attention and special treatment needed**

### **Treatment**

Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

### **5.2. Special hazards arising from the substance or mixture**

#### **Fire hazard**

Burning produces irritating, toxic and noxious fumes. Combustible dust.

#### **Explosion hazard**

Dust may form explosive mixture in air. Dust cloud in combination with static electricity can very be explosive.

### **5.3. Advice for firefighters**

#### **Firefighting instructions**

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Keep people away from and upwind of fire.

#### **Protection during firefighting**

Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General measures**

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Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe vapor. Do not breathe dust. Use personal protective equipment as required. Ground/bond container and receiving equipment.

## **6.1.1. For non-emergency personnel**

### **Protective equipment**

Refer to section 8.2.

### **Emergency procedures**

Evacuate unnecessary personnel.

## **6.1.2. For emergency responders**

### **Protective equipment**

Refer to section 8.2.

### **Emergency procedures**

Evacuate unnecessary personnel.

## **6.2. Environmental precautions**

### **Environmental precautions**

Prevent entry to sewers and public waters.

## **6.3. Methods and material for containment and cleaning up**

### **Methods for containment**

Avoid generating dust. Contain and collect as any solid.

### **Methods for cleaning up**

On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

## **6.4. Reference to other sections**

For personal protective equipment see section 8.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Precautions for safe handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Ground/bond container and receiving equipment.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Technical measures**

Proper grounding procedures to avoid static electricity should be followed.

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## Storage Conditions

Keep only in the original container. Keep container closed when not in use.

## Incompatible products

Moisture. Strong oxidizers.

## Incompatible materials

Sources of ignition. Direct sunlight.

## Storage area

Store in dry, cool, well-ventilated area. Store in a dark area.

## 7.3. Specific end use(s)

Industrial processing & uses

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits United States of America

##### US ACGIH

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)
Dust, general threshold limit value (inhalable fraction) CAS: -	10			
Dust, general threshold limit value (respirable fraction) CAS: -	3			

##### US OSHA Z-1

Component	Ceiling (mg/m <sup>3</sup> )	Ceiling (ppm)	PEL (mg/m <sup>3</sup> )	PEL (ppm)	Skin Designation
Dust, general threshold limit value (inhalable fraction) CAS: -			15		
Dust, general threshold limit value (respirable fraction) CAS: -			5		

#### Note

For details and further information please refer to the original regulation.

### 8.2. Exposure controls

#### Appropriate Engineering controls

Avoid dispersal of dust in the air (clearing dust surfaces with compressed air). Emergency eye wash fountains and

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safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Use spark-/explosion proof appliances and lighting system.

## **Personal protective equipment**

Avoid all unnecessary exposure.

### **Hand protection**

Wear dust impervious gloves. Nitrile rubber. Neoprene/natural rubber. Heat protective impervious gloves when handling molten product.

### **Eye protection**

Chemical goggles or safety glasses. When handling in molten state: Face shield.

### **Skin and body protection**

Wear suitable protective clothing.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material.

### **Thermal hazard protection**

Flame retardant clothing should be used when handling in molten state.

### **Other information**

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	granules, pellets
<b>Colour</b>	white, clear
<b>Odour</b>	slight
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/range</b>	311 - 338 °F (155 - 170 °C)
<b>Boiling point/range</b>	No data available
<b>Flash point</b>	608 °F (> 320 °C)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not flammable
<b>Lower explosion limit</b>	< 10 g/m <sup>3</sup>
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available

### **Relative density**

Values	@ °C	@ °F	Method
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900 - 920	-	-	-
<b>Solubility</b>	No data available		
<b>log Pow</b>	No data available		
<b>Autoignition temperature</b>	662 °F (> 350 °C)		
<b>Decomposition temperature</b>	> 572 °F (> 300 °C)		
<b>Viscosity</b>	No data available		

## 9.2. Other information

<b>Molecular formula</b>	-(C <sub>3</sub> H <sub>6</sub> ) <sub>x</sub> -
<b>Oxidizing properties</b>	No data available
<b>Bulk density</b>	550 - 630 kg/m <sup>3</sup>
<b>Explosive properties</b>	No data available

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Avoid creating or spreading dust.

### 10.5. Incompatible materials

Strong oxidizers. Moisture.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Burning produces irritating, toxic and noxious fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Eye contact, Ingestion, Inhalation, Skin contact

**Acute toxicity**  
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Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 5000 mg/kg	rat	
Dermal	LD50	> 2000 mg/kg	rat	

## **Polypropylene, CAS: 9003-07-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

For acute inhalation toxicity, no data are available

## **Polypropylene, CAS: 9003-07-0**

### **Assessment**

For skin irritation, no data are available

For eye irritation, no data are available

For respiratory irritation, no data are available

## **Polypropylene, CAS: 9003-07-0**

### **Assessment**

For skin sensitization, no data are available

For respiratory sensitization, no data are available

## **Polypropylene, CAS: 9003-07-0**

### **Assessment**

For subacute, subchronic and prolonged toxicity, no data are available

## **Polypropylene, CAS: 9003-07-0**

### **Evaluation**

For carcinogenicity, no data are available

For mutagenicity, no data are available

For reproductive toxicity, no data are available

## **Polypropylene, CAS: 9003-07-0**

### **Aspiration toxicity**

no data available

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No data available

### **12.2. Persistence and degradability**

## **Polypropylene, CAS: 9003-07-0**

### **Biodegradation**

Not readily biodegradable.

### **12.3. Bioaccumulative potential**

Not expected to bioaccumulate



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## 12.4. Mobility in soil

Low mobility (soil)

## 12.5. Results of PBT and vPvB assessment

Not required

## 12.6. Other adverse effects

No data available

### Note

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Waste disposal recommendations</b>	Dispose in a safe manner in accordance with local/national regulations.
<b>Ecology - waste materials</b>	Avoid release to the environment.

## SECTION 14: Transport information

### Section 14.1 - 14.6

**D.O.T. (49CFR)** Not restricted

**ICAO-TI / IATA-DGR** Not restricted

**IMDG** Not restricted

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** not applicable

## SECTION 15: Regulatory information

### Federal and State Regulations

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

### Federal Regulations

This product is listed on the TSCA inventory

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## International Inventories

### Polypropylene, CAS: 9003-07-0

AICS (AU)  
DSL (CA)  
IECSC (CN)  
ENCS (6)-402 (JP)  
ISHL (6)-402 (JP)  
KECI KE-29389 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC-NZ May be used as single component chemical  
TCSI (TW)

## **SECTION 16: Other information**

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### Hazard Rating Systems

#### **NFPA (National Fire Protection Association)**

Health Hazard	0
Fire Hazard	1
Reactivity	0

#### **HMS (Hazardous Material Information System)**

Health Hazard	0
Flammability	1
Physical Hazard	0

### **Abbreviations**

A table of terms and abbreviations can be found under the following link:  
[http://echa.europa.eu/documents/10162/13632/information\\_requirements\\_r20\\_en.pdf](http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf)

### **Training advice**

For effective first-aid, special training / education is needed.

### **Sources of key data used to compile the datasheet**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <https://echa.europa.eu/en/information-on-chemicals/cl-inventory-database>. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

### **Further information for the safety data sheet**

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more

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information, other safety data sheets or technical data sheets please consult the OQ homepage ([www.oq.com](http://www.oq.com)).  
The use of a comma in section 3 and section 7 to 12 is the same as a period.

**Safety Data Sheet prepared by:**

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**Disclaimer**

This Information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing and specific property of the product.

**End of Safety Data Sheet**