

**Polypropylene HMR040**

Version 1.01

Revision Date 07.12.2017

# Material Safety Data Sheet

## SECTION 1 Identification of the substance/mixture and of the company/undertaking

**Trade name** Polypropylene HMR040

**Synonyms** Propylene Polymer, Propene Polymer, 1-Propene, Homopolymer.

**Use** Applications in the food industry. Polymer for extrusion, injection moulding, blow moulding & thermoforming applications.

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## SECTION 2 Hazards identification

### Classification of the substance or mixture

**Classification** According to OSHA 29 CFR 1910.1200 HCS  
This substance is not classified as hazardous according to GHS.

### Label elements

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<b>Pictogram</b>	Not applicable
<b>Signal word</b>	Not applicable
<b>Hazard statements</b>	This substance is not classified as hazardous according to GHS.
<b>Precautionary statements</b>	
<b>Prevention</b>	This substance is not classified as hazardous according to GHS.
<b>Response</b>	This substance is not classified as hazardous according to GHS.
<b>Storage</b>	This substance is not classified as hazardous according to GHS.
<b>Disposal</b>	This substance is not classified as hazardous according to GHS.
<b>Other hazards</b>	May form combustible dust concentrations in air (during processing).

## SECTION 3 Composition/information on ingredients

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Polypropylene	9003-07-0	>= 99.00

Exposure limit(s): See chapter 8

Classification and hazard labelling: See chapter 15

## SECTION 4 First aid measures

**Eye contact** At room temperature the product is not considered hazardous in contact with eyes. In case of eye contact with molten polymer, cool under running water for 3-5 minutes. Do not attempt to remove molten polymer. Get medical attention immediately.

**Skin contact** At room temperature the product is not considered harmful when in contact with skin. In case of skin contact with molten polymer immediately submerge the affected area in cold water to cool down polymer.

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**Inhalation** Product does not release fumes at ambient temperatures. If exposed to fumes from heated polymer move to fresh air environment.

**Ingestion** At room temperature the product is not considered harmful when swallowed.

## SECTION 5 Firefighting measures

**Fire/explosion** Substance evolves toxic gases when burned.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Acrolein. formaldehyde-like products

**Suitable extinguishing media** Dry chemical.  
Carbon dioxide (CO<sub>2</sub>).  
Water spray.

**Protection measures and instructions** Wear self-contained breathing apparatus and protective suit.

## SECTION 6 Accidental release measures

**Environmental precautions** No special environmental precautions required.

**Methods for cleaning up** Shovel into suitable container for disposal.

Exposure controls/personal protection: See chapter 8

## SECTION 7 Handling and storage

**Safe handling advice** No special handling advice required under normal conditions. Molten polymer: Wear heat-resistant protective equipment.

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**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Storage** Keep away from direct sunlight. Keep away from heat.

**Further information on storage conditions** Keep in a cool, well-ventilated place.

## SECTION 8 Exposure controls/personal protection

### Engineering measures

If user operations generate dust, fumes or mists, use ventilation to keep exposure to airborne contaminants below the exposure limit. Use only in an area equipped with explosion proof exhaust ventilation. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Ensure adequate ventilation.

### Personal protective equipment

**Eyes** No eye protection is required under normal conditions. Molten polymer: Wear safety glasses with side shields.

**Skin** No special body protection is required under normal conditions. Molten polymer: Wear heat-resistant protective clothing.

**Inhalation** No personal respiratory protective equipment normally required. In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

**Hand protection** No hand protection required under normal conditions. Molten polymer: Wear heat-resistant gloves.

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### Exposure Guidelines

Components    Exposure limit(s)

PEL= Permissible Exposure Limits  
 TLV= Threshold Limit Value  
 EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
 STEL= Short Term Exposure Limit (15 min.)  
 WEEL= Workplace Environmental Exposure Level

## SECTION 9 Physical and chemical properties

**State of matter**    Solid

**Colour**    Translucent to white

**Odour**    None to slightly waxy

**Form**    Solid form

**Boiling point/boiling range**    Not applicable

**Flash point**    > 350 ° C open cup

**Lower explosion limit**    No data available

**Upper explosion limit**    No data available

**Solubility(ies)**    Insoluble

**Viscosity**    No data available

**Melting point/range**    130 - 165 ° C

**Density**    0.88 - 0.92 g/cm<sup>3</sup>

**pH**    No data available

**Partition coefficient:**    No data available



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n-octanol/water

### SECTION 10 Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions. Continuous heating above 160 °C will lead to thermal oxidation.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous decomposition products</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide. Acrolein. formaldehyde-like
<b>Materials to avoid</b>	Oxidizing agents.
<b>Hazardous polymerisation</b>	Strong oxidizing agents

### SECTION 11 Toxicological information

<b>Skin contact</b>	Molten polymer can cause severe burns in contact with skin and eyes.
<b>Skin contact</b>	Polypropylene: Molten polymer can cause severe burns in contact with skin and eyes.
<b>Further Information</b>	No data available

### SECTION 12 Ecological information

<b>Ecotoxicity effects</b>	
<b>Other adverse effects</b>	No data available

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### SECTION 13 Disposal considerations

#### Waste Classification

Waste from residues / unused products Disposal should be in accordance with local, regional and national legislations.

Handling and storage: See chapter 7

Exposure controls/personal protection: See chapter 8

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### SECTION 14 Transport information

Further information Not classified as dangerous in the meaning of transport regulations.

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### SECTION 15 Regulatory information

#### U.S. Federal Classifications:

OSHA Hazards This material is non-hazardous as defined by the American OSHA Hazard Communication Standard.

SARA 311/312 No SARA Hazards

#### U.S. Regulated Ingredients:

##### Hazard information reporting

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

##### Components

CAS-No.

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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### Spill reporting

US. EPA CERCLA Hazardous Substances (40 CFR 302)

#### Components

CAS-No.

Reportable Quantity

Not listed

### Health

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

#### Components

CAS-No.

Not listed



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### Inventories

Registration, Evaluation and Authorisation of Chemicals (REACH)	All chemical constituents are listed in: Registration, Evaluation and Authorisation of Chemicals (REACH) (See chapter 3)
Inv. of Exist. Chem. Substances in China	All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

### Other international regulations

WHMIS Classification No data available

## SECTION 16 Other information



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All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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