

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 23.03.2009

Version 4

Revision: 28.02.2008

## 1 Identification of substance:

- **Product details:**
- **Trade name:** Moplen HP456J
- **Article number:** 11189
- **Application of the substance / the preparation** Synthetic resin
- **Manufacturer/Supplier:** LyondellBasell Industries
- **Informing department:**  
Regulatory Affairs Department  
Research center G. Natta, Basell Poliolefine Italia s.r.l., 44100 - Ferrara (Italy)  
Phone: +39/0532/468653 ; h 8.30-17.00  
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- **Emergency information:** MSDSinfo@lyondellbasell.com

## 2 Hazards identification

- **Information pertaining to particular dangers for man and environment**  
The molten product adheres to the skin and causes burns.  
Spilled material may present a slipping hazard.  
Possible production of electrostatic chargings when used.  
The working steams can irritate the eyes as well as the respiratory tract.
- **Classification system**  
This product is, according to EEC directives 1999/45, 67/548, according to 1907/2006/EC, and following amendments, not classified as hazardous.

## 3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Designation**  
9003-07-0
- **Description:**  
Mixture of the substances listed below with harmless additives:  
1-Propen-homopolymer

## 4 First aid measures

- **General information**  
The measures listed below apply to critical situations (Fire, incorrect process conditions).  
At room temperature the product is neither an irritant nor gives off hazardous vapours.
- **After inhalation**  
In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.  
Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.
- **After skin contact**  
After contact with the molten product, cool rapidly with cold water.  
Do not pull solidified product away from the skin.  
Seek immediate medical advice.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing**  
Get medical advice if necessary.  
No specific measures have to be taken if the product is swallowed.

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### 5 Fire fighting measures

**- Suitable extinguishing agents**

Water haze

Foam

Carbon dioxide

Chemical powder

**- For safety reasons unsuitable extinguishing agents** None**- Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire it can release :

water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), and when lacking oxygen (O<sub>2</sub>), carbon monoxide (CO)

The products of the burning are dangerous.

The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C).

**- Protective equipment:** Put on breathing apparatus.**- Additional information** Heat value : 8000 - 11000 kcal/kg

### 6 Accidental release measures

**- Person-related safety precautions:**

No specific measures are necessary.

See point 8

**- Measures for environmental protection:**

No special measures required.

See points 12 and 13.

**- Measures for cleaning/collecting:**

See point 13

Small spills:

Put into a labelled container and provide safe disposal.

Large spills:

Act as during a limited release.

Recycle product or dispose properly.

**- Additional information:** Collect spilled polymer: It could cause falls (Danger of slipping).

### 7 Handling and storage

**- Handling****- Information for safe handling:**

No special requirements necessary, if handled at room temperature.

Avoid spilling the product, as this might cause falls.

When bringing the material to processing temperatures gases might develop, forming:

propylene

hydrocarbon substances with low molecular weight and their oxidation products

solvent residues

traces of formaldehyde and acrylaldehyde

traces of acids (Formic acid, acetic acid)

Provide appropriate ventilation for such processing conditions.

Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehyde, formic acid, and acetic acid being significantly below TLV- values.

Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

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- **Storage**
- **Requirements to be met by storerooms and containers:**  
Take precautionary measures to prevent the formation of static electricity.



Do not smoke.

- Ground equipment electrically.
- Electric safety equipment.
- Open flames prohibited.
- Store the product in bags, car silos, container, or large cartons.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store container in a well ventilated position.  
Store under dry conditions.  
Do not stack up the octabins.
- **Specific applications** For safe stacking follow the storage recommendations specific for this product

## \* 8 Exposure controls and personal protection

- **Components with limit values that require monitoring at the workplace:** Not required.

- **Additional exposure limit values for possible processing dangers:**

### 107-02-8 acrylaldehyde

WEL	Short-term value: 0.7 mg/m <sup>3</sup> , 0.3 ppm
	Long-term value: 0.23 mg/m <sup>3</sup> , 0.1 ppm

### 50-00-0 formaldehyde

WEL	Short-term value: 2.5 mg/m <sup>3</sup> , 2 ppm
	Long-term value: 2.5 mg/m <sup>3</sup> , 2 ppm

### 64-18-6 formic acid

WEL	Long-term value: 9.6 mg/m <sup>3</sup> , 5 ppm
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- **Additional information:** see point(s) 7, 9.

- **Personal protective equipment**
- **General protective and hygienic measures**  
Do not eat or drink while working.  
No smoking.  
Provide system for collecting the vapors which are created during the working process.
- **Breathing equipment:**  
If appropriate ventilation is not available use face mask when handling the molten product.
- **Protection of hands:** Heat resistant gloves
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.
- **Body protection:** Normal overalls

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### 9 Physical and chemical properties:

#### - General Information

<b>Form:</b>	Granulate
<b>Colour:</b>	White
<b>Odour:</b>	Odourless

#### - Change in condition

**Melting point/Melting range:** 160-163°C

**- Flash point:** Not applicable (see attachment to guideline 92/69/EEC, A.9)

**- Ignition temperature:** > 400°C

**- Decomposition temperature:** > 300°C

**- Danger of explosion:** Product is not explosive.  
See point(s) 7.

**- Density at 20°C** 0.89-0.91 g/cm<sup>3</sup>

**- Solubility in / Miscibility with Water:** Insoluble

**- Additional information** Soluble in boiling, aromatic chlorinated solvents.

### 10 Stability and reactivity

#### - Thermal decomposition / conditions to be avoided:

The product is stable at normal handling- and storage conditions.

**- Materials to be avoided:** Strong oxidation agent

**- Dangerous reactions** No dangerous reactions known

**- Dangerous products of decomposition:** No hazardous decomposition products known at room temperature.

### 11 Toxicological information

#### - Acute toxicity:

#### - Primary irritant effect:

- on the skin: No irritant effect.

- on the eye: No irritant effect.

- Sensitization: No sensitizing effect known.

#### - Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information:

#### - Information about elimination (persistence and degradability):

- Other information: The product is not biodegradable.

#### - Behaviour in environmental systems:

#### - Mobility and bioaccumulation potential:

Floats on water.

There is no bioaccumulation.

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**- General notes:**

The product is not toxic, small particles can have physical effects on water and soil organisms.

**13 Disposal considerations****- Product:****- Recommendation**

The material can be re-used or recycled according to the regulations of Guideline EG 94/62.  
Disposal through controlled incineration or authorised waste dump.

**- European waste catalogue 070213****- Uncleaned packagings:**

**- Recommendation:** Disposal must be done according to official regulations.

**14 Transport information****- Transport/Additional information:**

According to national and international guidelines, which regulate the road-, rail-, air- and seartransport, this product is classified as not dangerous.

**15 Regulatory information****- Designation according to EC guidelines:**

The material is not subject to classification according to EC lists and other sources of literature known to us.  
Observe the normal safety regulations when handling chemicals

**- National regulations****- Other regulations, limitations and prohibitive regulations**

Generally all national regulations regarding this product type apply.

**16 Other information:**

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Lyondellbasell takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

**- Department issuing data specification sheet:** Regulatory Affairs Department

**- Contact:** Regulatory Affairs Department

**- Bibliography:**

- Directive EEC 67/548 and following adaptations

- Directive 1999/45/EC, as amended  
1907/2006/EC

- Directive 2001/58/EC

- RTECS (Registry of toxic effects of chemical substances 1985-1986 edition)

- Frostling, Hof, Jacobson, Pfaffli, Zitting, "Thermal decomposition products from plastics", 2-Polypropylene and poly vinyl chloride, 1983

- EINECS/ELINCS

**- \* Data compared to the previous version altered. REACH version**