

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.05.2012

Version 5

Revision: 12.04.2012

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

- **Product identifier**
- **Trade name:** Lupolen 1800 H
- **Article number:** 10125
- **CAS Number:**  
9002-88-4
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Synthetic resin
- **Details of the supplier of the safety data sheet**
- **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  
Fax.: +39/0532/468820
- **Emergency telephone number:** MSDSinfo@lyondellbasell.com

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The substance is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**  
The molten product adheres to the skin and causes burns.  
Spilled material may present a slipping hazard.
- **Classification system:**  
This product is, according to EEC directives 1999/45, 67/548, Regulation 1907/2006/EC, and following amendments, not classified as hazardous.
- **Label elements**
- **Labelling according to EU guidelines:** Not classified
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Designation**  
9002-88-4 1-ethene homopolymer
- **Description:** Low density polyethylene

### 4 First aid measures

- **Description of first aid measures**
- **General information**  
At room temperature the product is neither an irritant nor gives off hazardous vapours.  
The measures listed below apply to critical situations (Fire, incorrect process conditions).
- **After inhalation** In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.
- **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** No specific measures have to be taken if the product is swallowed.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
Water haze  
Foam  
Chemical powder
- **For safety reasons unsuitable extinguishing agents** Water jet.
- **Special hazards arising from the substance or mixture**  
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.
- **Advice for firefighters**
- **Protective equipment:**  
Use a mask with universal filter.  
Use self-contained breathing apparatus within confined rooms.
- **Additional information** Heat value: 12,2 kWh/kg

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Particular danger of slipping on leaked/spilled product.  
See point 8
- **Environmental precautions:**  
No special measures required.  
See points 12 and 13.

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- **Methods and material for containment and cleaning up:**  
Recycle product or dispose properly.  
See point 13
- **Reference to other sections** Collect spilled polymer: It could cause falls (Danger of slipping).

**7 Handling and storage**

- **Handling**
- **Precautions for safe handling**  
No special requirements necessary, if handled at room temperature.  
When bringing the material to processing temperatures gases might develop, forming:  
ethylene and alkenes of higher molecular weight.  
traces of formaldehyde and acrylaldehyde  
traces of acids (Formic acid, acetic acid)  
Provide appropriate ventilation for such processing conditions.  
Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.  
Prevent formation of dust.  
Avoid spilling the product, as this might cause falls.
- **Conditions for safe storage, including any incompatibilities**
- **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.  
Open flames prohibited.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store container in a well ventilated position.  
Store under dry conditions.  
Do not stack up the octabins.
- **Specific end use(s)** For safe stacking follow the storage recommendations specific for this product

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.

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

<b>107-02-8 acrylaldehyde</b>	
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
<b>50-00-0 formaldehyde</b>	
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
<b>64-18-6 formic acid</b>	
WEL ()	Long-term value: 9.6 mg/m <sup>3</sup> , 5 ppm

- **Additional information:** Void
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** Do not eat, drink or smoke while working.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Pellets  
**Colour:** Neutral  
various colours  
**Odour:** Nearly odourless

- **Change in condition**

**Melting point/Melting range:** 50-140°C  
**Boiling point/Boiling range:** Not applicable

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

- **Ignition temperature:** > 360°C

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

- **Density at 20°C** 0.9-0.97 g/cm<sup>3</sup>

- **Solubility in / Miscibility with**

**Water:** Insoluble

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

**10 Stability and reactivity**

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
The product is stable when handled and stored under normal conditions.  
Decomposes over 360 °C.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No hazardous decomposition products known at room temperature.

**11 Toxicological information**

- **Information on toxicological effects**
- **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**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Other information:** The product is not biodegradable.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential**  
Floats on water.  
There is no bioaccumulation.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** The product is not toxic, small particles can have physical effects on water and soil organisms.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
Reuse or recycle if possible.  
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**

- <b>UN-Number</b> - <b>ADR, ADN, IMDG, IATA</b>	Void
- <b>UN proper shipping name</b> - <b>ADR, ADN, IMDG, IATA</b>	Void
- <b>Transport hazard class(es)</b> - <b>ADR, ADN, IMDG, IATA</b> - <b>Class</b>	Void
- <b>Packing group</b> - <b>ADR, IMDG, IATA</b>	Void
- <b>Environmental hazards:</b>	
- <b>Special precautions for user</b>	
- <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
- <b>Transport/Additional information:</b>	According to national and international guidelines, which regulate the road-, rail-, air- and seairtransport, this product is classified as not dangerous.
- <b>UN "Model Regulation":</b>	-

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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Designation according to EC guidelines:**  
Not classified
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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

Research Center G. Natta, Basell Poliolefine Italia s.r.l.- 44100 Ferrara (Italy)

**- 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 (repealed by (EC) 1907/2006)

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

- EINECS/ELINCS (REACH)

- Frostling, Hof, Jacobson, Pfaffli, Zitting. "Thermal decomposition products from plastics", -Polyethylene and styrene (1982)

**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

**- \* Data compared to the previous version altered. Section 3**