

# SAFETY DATASHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex

Product Name	Low Density Polyethylene	Version	0
		Date Updated	01/09/2011
Form Number		Date Printed	27/09/2011
		Regulation Number	EC No 1907/2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of Substance	Low Density Polyethylene
Synonyms	Not available
Index No	Not available
CAS#	9002-88-4
EC#	Not available
REACH Registration No Primary /	Not available
Common Uses	<p>Injection moulding (bottle and jar caps, small pieces, toys). Blow moulding ( various bottles and cups, toys)</p> <p>Film extrusion (heavy duty bags, film for construction, industrial and agricultural uses) pipe extrusion (various pipes). Wire and cable coating (telephone, power, high frequency and signal cables). Blow moulding (detergent bottles, big volume containers, containers for transportation of corrosive chemicals)</p> <p>Detergent bottles, squeeze tubes, containers for aggressive cosmetic preparations and general chemicals, intermediate size mouldings</p>

## 2. HAZARDS IDENTIFICATION

Not classified by OSHA as a flammable or combustible.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Substances /Ingredient	Identifier	%	Classification	
			67/548/EEC	EC No. 1272/2008
Polyethylene	RRN: Not available EC#: Not available CAS#: 9002-88-4 Index #: Not available	100	N/A	N/A

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## 4. FIRST AID MEASURES

### Eye Contact

Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with running water for at least 15 minutes. Remove contact lens, if worn. Seek medical attention.

### Skin Contact

Exposure to molten resin may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Seek Medical attention.

### Ingestion

No adverse health effects expected from ingestion.

### Inhalation

Dust and process vapors may be irritating to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

### Extinction Equipment

Water, Foam, Carbon Dioxide, Dry Chemical, Synthetic Foams, Alcohol Resistant Foams

### Auto ignition Temperature

340-345 °C

### Possible Hazard From Burning and Gasification

The smoke can contain polymer fragments of varying composition, in addition to unidentified toxic and/or irritating compounds. Combustible gases will be released when product is exposed to temperatures over 300 °C. Combustion by-products include, but are not limited to, carbon dioxide, carbon monoxide, and aldehydes.

### Special Equipment

Use positive pressure self contained breathing apparatus to protect fire fighters from decomposition products.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Protection

Glasses with side shields in dusty conditions. Gloves and protective garments when handling molten material.

### Environmental Protection

Prevent to deposit in working area and reach to sewer system or watercourses.

### Cleaning Methods

Slippery material. Collect product for re-use or disposal. Sweep up immediately to eliminate slipping hazard. Notify applicable government authority if release is reportable or could adversely affect the environment.

## 7. HANDLING AND STORAGE

### Handling

Inspect handling system regularly for possible accumulation of fines. Fines can present an explosive hazard when exposed to heat, sparks and open flames.

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## Storage

Store in dry area. Keep away from sunlight, sparks, heat and flame. This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers. Use proper grounding procedures.

## Storage Temperature

Max 50 °C

## Transport Temperature

Ambient condition

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Safety shower and eye bath located close to chemical exposure area in case of malfunction of process equipment.

### Exposure Limits

There is no special control limit for LDPE. However, the limit value for non-toxic dust concentration in ambient air is 10 mg/m<sup>3</sup>.

Exposure Limits	ACGIH TWA/STEL	OSHA PEL/STEL
Low Density Polyethylene	10 mg/m <sup>3</sup> (total dust)	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable dust)

## Respiratory System

Adequate ventilation is recommended to minimize accumulation of fines or vapors during processing and handling. Where exposure to nuisance dust may exceed acceptable levels, use NIOSH/MSHA approved respiratory protection equipment.

## Hands and Skin Protection

Wear heat resistant gloves, especially when polymer is hot.

## Eye/Face Protection

Wear safety glasses, face shield or chemical goggles to avoid getting material in the eyes during bulk handling. Eyewash fountains and safety showers should be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid Resin Pellets
Color	White
Odor	Not applicable
Boiling Range	Not applicable
Melting Point	104-115 °C
Flash Point	360 °C
Explosion Limits in Air	10 g/m <sup>3</sup> (For dust in air)
Vapor Pressure (20°C)	Not Estimated 0.918-0.923 gr/cm <sup>3</sup>
Density (23°C) Viscosity	Not Estimated
Solubility	Insoluble in water

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## 10. STABILITY AND REACTIVITY

### Stability

Stable

### Conditions to Avoid

Keep away from heat, sparks and flame. Avoid storage or contact with strong oxidizing agents.

### Materials to Avoid

Fluorinated and oxygenated compounds (>%50 Fluorine).

### Hazardous Decomposition Products

Hazardous polymerization will not occur. Carbon Monoxide, Carbon Dioxide, selected alkenes and aldehydes including acrolein and formaldehyde can be formed in negligible amount.

## 11. TOXICOLOGICAL INFORMATION

This product not listed as a carcinogen by OSHA, IARC and AC6IH. The ingredients are not mutagenic, teratogenic and reproductive toxins.

### Toxicity Limit

Toxicity	Inhalation LC 50	Dermal LD 50	Oral LD 50
Polyethylene	N/A	N/A	>5000 mg/kg (rat)

### Eye Contact

This material is normally non-irritating upon contact. It may irritate eye tissues and cause erythema.

### Skin Contact

This material is normally non-irritating upon contact. It may cause irritation and aridity in case of frequently contact.

### Inhalation

It may be dangerous if its dust is inhaled for long period. It may lead to irritation in the nose, throat and respiratory system and may cause coughing and sneezing, headache and vertigo.

### Ingestion

No adverse effects are anticipated. It can be toxic in low level.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

There is no evidence report that the material has environmental risk.

### Mobility

Not estimated.

### Defined or estimated distribution through the environmental medium

Not available information

### Surface tension

Not available

### Adsorbtion/Desorbtion

Not available

### Persistence/ Degradability

Very low level UV deterioration.

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## Biologically Accumulation

This material is not expected to be readily biodegradable.

## Toxicity in Water Media

The material is not soluble. Not toxic. Fish or birds may eat pellets which may obstruct their digestive tracts.

## Life time in water, LC 50

Not available

## Spineless, EC50

Not available

## 13. DISPOSAL CONSIDERATIONS

### Waste Product

It is not hazardous or toxic. It can be recycled. If it can't be recycled, dispose of waste material at a suitable landfill site, or at an approved waste incineration facility in accordance with applicable local, provincial, state and federal regulations.

### Package

Our product is packaged in 25 kg PE bags in and 1400 kg PP big bagss loose or palletized and shrink-wrapped. The waste packing material must be treated according to national legislation.

## 14. TRANSPORTATION INFORMATION

### ADR Regulation

It is not classified as hazardous chemicals in ADR/RID Regulations.

### Air Transportation (IATA/ICAO)

It is not regulated as hazardous material ordangerous goods for transportation under IATA/ICAO Regulations.

### Marine Transportation

It is not regulated as hazardous material ordangerous goods for transportation under IMO Regulation.

## 15. REGULATORY INFORMATION

### Classification and Labeling According to EU Directive

Classification / Symbol It is not under the scope of The Dangerous Chemicals Directive EC 88/379

### Risk Phrases

-

### Safety Phrases

S22, Do not breathe dust

## 16. OTHER INFORMATION

OSHA

Occupational Safety Health Administration

PEL

Permissible Exposure Level

ACGIH

American Conference of Governmental Industrial Hygienists, Inc

TLV

Threshold Limit Value

This grade has certificate for production of the material in contact with foodstuffs as received by Ministry of Agriculture and Village Affairs dated 12.10.1999 and no. 35-212-1-5.

The information's given here depends on our present knowledge. Related National and International Legislation and Agreements should be considered by customer with their responsibility.