eslatene LD

LDPE

eslavaplásticos

SAFETY DATA SHEET (SDS)

According to EU Regulation 2020/878 · FS-CAL/04 · Rev-3 / September 2023
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1. Product and company identification

PRODUCT IDENTIFICATION
Chemical name: Polyethylene
Family: Ethylene monomer polymers
Other synonyms: r-PELAD, PEMD
Chemical formula: (CH2)x
CAS number: 9002-88-4

Recycled low-density polyethylene granules presented in pellet form (2-5 mm)

COMPANY NAME
ESLAVA PLASTICOS SA
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Pre-Registration REACH: JS3677170-24 | SM377254-14 | AS377919-03 | ST378156-00

MOST COMMON USES AND APPLICATIONS
Plastic transformers for extrusion and injection to produce agricultural protections, packaging, technical parts, irrigation pipes, film for bags and sheets, among other applications.

2. General hazard identification

The product is not classified as hazardous according to Regulation (EC) 1272/2008 or subsequent amendments.

The product does not require hazard identification according to Regulation (EU) 2020/11.

The product is a solid presented in granule form, non-toxic, and with minimal odor. It is insoluble in water. There are no known specific hazards to human health and the environment, except those related to being a solid fuel with a flash point above 350°C, melting between 105–115°C. Upon combustion with sufficient air, the main product generated is CO2. In insufficient air, it produces smoke (soot), carbon monoxide, and various oligomers and aldehydes, which can cause irritation to the eyes, skin, and respiratory system. During production or subsequent handling, the generation of small combustible particles in the air or bioaccumulation in aquifers should be avoided.

It degrades slightly upon prolonged exposure to light and weather, which incipiently affects its composition. Without specific additives, it is not biodegradable.

Environmental damage from abandoned PE objects is primarily mechanical, unless long-term exposure to weather leads to the formation of secondary microplastics smaller than 1 mm, considered environmentally persistent (Regulated by CLP-Nov 2023) and consequently bioaccumulative. Not of biological origin.

Contact with dust may cause mechanical irritation to the eyes. Contact with the skin may cause mild irritation; however, contact with the material in its hot melted state can cause severe burns. In practice, there is no observed risk of dermatitis from normal handling. Ingestion of this product is unlikely.

Generic ratings for all grades of Polyethylenes:
HMIS and NFPA Ratings: Health 0, Fire 1, Reactivity 0 (0 = minimal, 1 = slight).

Precautionary codes:
P210: Keep away from heat, sparks, and open flames.
P273: Avoid release to the environment.
P302: In case of contact with skin, especially if hot or in molten state, wash with plenty of water.
P280: Wear personal protective equipment: safety glasses, gloves, respirator.

3. Composition/information on components

Chemical Characteristics:
Recycled Low-Density Polyethylene obtained through a selection, washing, and regranulation process at 200°C. No colorants or pigments containing heavy metals are used in its coloring process, ensuring concentrations do not exceed 100 ppm.

Depending on the intended application, Polyethylene may be compounded with colorants based on mixtures of Calcium Carbonate and Titanium Dioxide CAS No. 3463-67-7 (White color) or Carbon Black CAS No. 1333-86-4 (Black color).

These products are not classified as hazardous according to Regulation EC 1272/2008, 2019/1390, and amendment 2023/923.

4. First aid measures

In case of skin contact:
· With hot melted product, cool rapidly with cold water to prevent thermal burns. Seek medical attention.

In case of smoke inhalation during a fire:
· Prolonged or intense exposure may cause delayed pulmonary edema.

5. Firefighting measures

Appropriate extinguishing media:
· Water or water spray
· Foam
· Extinguishing gases
· Fire extinguishing powder

Extinguishing methods that should not be used: None.
· To avoid inhalation of airborne contaminants or smoke, use a self-contained breathing apparatus with a mask in positive pressure mode.

6. Accidental release measures

The granules are less dense than water, thus they float and can accumulate on water surfaces (OCR Regulation proposal).
· Use intact containers and apply safety measures during processing, storage, and transportation.
· Dispose and collect using mechanical means.
· Filter rainwater from yards or processing areas through screens with mesh smaller than 1 mm to prevent entry and spread in waterways.
· Establish spill prevention procedures and cleanup methods.
· Risk of slipping.

7. Handling and storage

Handling: No danger if kept away from heat sources.

Storage
Stability: When stored below 40°C, the product has unlimited stability. The material is not self-combustible, but precautions should be taken for solid material fires (fire prevention according to RSCIEI). Storage (P-401) must comply with legally established safety conditions.

8. Exposure limits and personal protection measures

Personal protection: No special measures required if handled with good practices.

Occupational hygiene measures: No smoking, eating, or drinking during work.

Occupational exposure limits: No established limits. Avoid the formation of inhalable dust during handling; if dust is present, the recommended limit for inhalable particles is 10 mg/m³ (TWA).

Additional protection measures: Use safety footwear due to slip hazard. Avoid overheating, sparks, and flames near storage areas or where dust may accumulate.

9. Physical and chemical properties

Characteristics
Physical state: Granular
Color: Whitish or colored.

Significant safety data
Change of state: Melting point of crystallites:
LDPE: 106°C to 130°C / HDPE: 128°C to 135°C

Flash point: Not applicable.

Ignition temperatures: Approx. 350°C
Flammability classification: Non-flammable.

Vapor pressure: Not applicable.

Bulk density: between 0.890 and 0.980 g/cm³ at 23°C (water = 1)
Apparent density (for transport): between 400 and 600 kg/m³

Water sensitivity: Insoluble..

10. Stability and reactivity

Thermal decomposition: Approx. 290°C

Heat of combustion: 43-45 MJ/kg (9500 kcal/kg)

Hazardous reactions: No hazardous reactions known.

Hazardous decomposition products: At temperatures above 400°C, decomposition accelerates, producing hydrocarbons, aldehydes, and CO.

Smoke without nitrogen, chlorine, or sulfur.

11. Toxicological information

Polyethylene-based materials are considered fundamentally inert and non-toxic.

Acute toxicity bibliographic data LD50/LC50 CAS 9002-88-4: Lethal concentration by inhalation for 50% of mice is 12 g/m3 (30 minutes).

Remarks:
Based on several years of experience and proper use, no adverse effects caused by the product are known. The materials used to produce recycled LDPE are Non-Hazardous, derived from the selection of post-consumer materials as established in TED/646/2923 Order for End of Waste Condition of Recycled Plastic Materials.

12. Ecological information

Remarks:
The product is insoluble in water. It is not biodegradable unless specifically additivated.

The product is not hazardous to fish and bacteria.

In wastewater treatment plants, it can be mechanically separated (flotation).

13. Waste disposal

Recyclable thermoplastic material. The products (applications) produced can be easily recycled if their design has considered recovery and recycling.

The product can be energetically valorized due to its high net calorific value. In landfill, it does not undergo bacteriological degradation or fermentation, unless specifically formulated for such purposes.

In case of disposal procedures, prior orientation towards energetic valorization in suitable facilities is recommended, with final disposal in controlled landfill as a last resort.

In water treatment plants, it can be mechanically separated through flotation or filtration.

14. Transport information

Land transport (ADR) / (RID): Not classified as dangerous goods.
Bulk transport (Marpol Annex II): Not applicable.
River transport (ADNR): Not classified as dangerous goods.
Maritime transport (IMDG): Not classified as dangerous goods.
Air transport (ICAO/IATA): Not classified as dangerous goods.
Shipping by post: Allowed. Not subject to risk identification.

15. Legal provisions

The information should be consulted by sectors of application and the standards developed for products.

Additionally, the standards (ASTM, ISO, UNE) can be consulted for characterization, identification, and establishing traceability.

16. Other information

This information is based on our current state of knowledge. Products are described for safety purposes, without constituting a guarantee of specific properties or due to incorrect handling and preventive measures