PRODUCTS
Safety Data
In accord with Reg-CE 1272/2008

ESLATENE HDCC (High Density Polyethylene with $CaCO_3$ or Talc)

01. Identification of the product and of the company

Identification of the product: ESLATENE HDCC (Commercial name)
Chemical name: Polyethylene. Family: polymers of ethylene monomer
Chemical formula: $(CH_2)_x$
Nº CAS: 9002-88-4. Nº CE-EINECS: Anexo 1 Dir/67/548): NP

Additive: ≤ 25% $CaCO_3$ Nº CAS 131-65-3 Nº CE-EINECS: Anex 1 Dir/67/548):NP
Or Talc Nº CAS 14807-96-6 Nº CE- EINECS 238-877-9

-Identification of the administrator: (ESLAVA PLÁSTICOS S.A. (Name of the company)
-Registered address: Calle Rio Vinalopo 31. Tel.: 961 920 212 Fax: 961 920 298

REACH pre-registration: *JS3677170-24*
SM377254-14
EC378573-44

Common use and applications: protections in agriculture, packaging, technical parts, irrigation pipes, film for bags and sheets, extrusion and injection.

02. Identification of hazards

It is insoluble in water. No particular hazards known to man and the environment, except for being a solid fuel with a flashpoint above 350ºC and from 105-115°C melts. In combustion, if the amount of air is sufficient, the main product is generated CO_2. In air gap produces smoke (soot), carbon monoxide and various oligomers and aldehydes, Nº CE-EINECS which cause irritation to eyes, skin and respiratory system.
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It degrades slightly to long exposures to light and weather, had a fledgling to its composition. If not explicitly additive is not biodegradable. The environmental damage caused by neglect of objects with PE, are mechanical, not biological type.

Generic term for all grades of polyethylene:
HMIS and NFPA Ratings: Health 0, Fire 1, Reactivity 0 (0 = minimal, 1 = mild)
Personal Protection: Safety glasses, gloves, respirator.

The product is a solid which is in the form of granules, non-toxic and minimal odor. Dust contact with eyes may cause mechanical irritation. Contact on the skin can produce mild irritation, although in contact with hot molten material may cause severe burns. In practice there has been no risk of dermatitis by normal handling. Ingestion of this product is unlikely.

03. Composition / Information on the components

Chemical characteristics: **RECYCLING OF HIGH DENSITY POLYETHYLENE OBTAINED BY SELECTION PROCESS, GRIND,WASHING, DRY AND EXTRUSION to 200 º C. NOT FOR USE COLORED PIGMENTS DYES OR COMPOSED OF HEAVY METALS TO FORM PART, SO MAY RESULT IN CONCENTRATION OVER 100 ppm.**

According to the application that is intended, the polyethylene may be an additive colored mixtures based on Calcium Carbonate and Titanium Dioxide CAS No. 3463-67-7 (white) or Carbon Black CAS No. 1333-86-4 (black).

This material **is not regulated** as hazardous materials or dangerous goods for transport.

04. First aids

In case of contact with skin:
With hot molten product, cool rapidly with cold water, risk of thermal burn. Visiting a doctor.

In case of smoke inhalation in a fire: If the exposure is prolonged or severe, can cause delayed pulmonary edema.

05. Measures for combating fire

Suitable extinguishing media:
Water
Foam
Gas extinguisher
Powder extinguishers
Water spray
Modes of extinction should not be used: none.
To prevent inhalation of airborne contaminants or smoke, should be contained breathing apparatus mask positive pressure mode.

06. Measures to be taken in the event of accidental spillage

Method of cleaning up:
Take up mechanically. The granules are less dense than water, so they get to float in it, accumulating in watery areas.

07. Handling and storage

Handling: safe

Take steps to prevent accumulation of electrostatic charges.
Provide local exhaust / ventilation at processing machines.

Storage

Stability:
Storing the product at temperatures below 40 º C, stability is unlimited. Own care should be taken only in case of fire of solids.

In case of polyethylene dust accumulation over time for its handling, this dust can be irritating and, in case of fire, fire can spread the trickle.

Provide local exhaust / ventilation at processing machines, whose operating temperature often exceed 120 º C.

08. Limitations to exposure and personal protection measures.

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

General protective measures: In the event of use as dust masks.

Hygiene measures:
Do not smoke, eat or drink while working.

Occupational exposure limits: no limits have been established.

Additional security measures: Use safety footwear, given the risk of slipping Avoid overheating, sparks and flames in the vicinity of storage and where dust may have accumulated.

09. Physical and chemical properties

Aspects:

State: physical granular or powder if required.
Color: white or colored.
Odor: Odorless

Significant data security:

Status Change: Melting point of crystallites: LDPE from 106 º C to 130 º C
HDPE from 128 º C to 135 º C

Flash point: Not applicable

Ignition Temperature: Approx. 350 º C
Flammability Classification: Nonflammable

Vapor Pressure: Not applicable.

Mass density: between 0.890 and 0.980 g / cc at 23 º C (water = 1)
Bulk density (transport): between 400 and 600 kg/m3

Sensitivity to water: Not soluble

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10. Stability and reactivity

Thermal decomposition: Approx. 290ºC

Heat of combustion: min 9500 kcal / kg

Dangerous reactions:
No dangerous reactions known.

Hazardous decomposition products: at temperatures above 400ºC, its decomposition is accelerated, producing hydrocarbons, aldehydes, and CO

Smoke-free nitrogen, chlorine and sulfur.

11. Toxicological information

The polyethylene based materials are considered essentially inert and nontoxic.

Bibliographic data on acute toxicity LD50/LC 50 CAS 9002-88-4: Inhalation lethal concentration of 50% in mouse 12 g/m3 (30 minutes)

Comment:
Based on the experiences of several years and in a proper, there are no known side effects caused by the product, materials used for recycling LDPE were selected from post-consumer materials that have not come into contact with dangerous products.

12. Ecological information

The product is not soluble in water. They are not biodegradable unless expressly additives.
The product is not dangerous for fish and bacteria.
In wastewater treatment plants can be separated by mechanical (flotation).

13. Waste disposal

Recyclable thermoplastic material. The product can be easily recycled, if your application has been considered that their design has been guided in their recovery.

The product can be harnessed energy, given its high net heat of combustion. In landfill

for non-bacteriological and fermentation is degraded unless it is made specifically for that purpose.

If you have to resort to removal procedures, can be oriented prior to energy recovery in appropriate facilities, with the final deposition controlled landfill as a last resort destination.

In water treatment plants can be separated mechanically by flotation.

14. Information related to transport

Land transport
ADR (Not classified s hazardous goods)
RID (Not classified as hazardous goods)

Waterway transport
ADNR (Not classified as hazardous goods)

Sea transport
IMDG (Not classified as hazardous goods)

Air transport
ICAO/IATA (Not classified as hazardous goods)

Sending by post: permitted

Nor is subject to risk identification

15. Provisions of legal nature

Should be consulted by areas of application and standardization of products developed.

Additionally, see the Standardization developed (ASTM, ISO, UNE) for characterization, identification and establishment of traceability.

16. Other information

This information is based on the current state of our knowledge. The products are described as regards their safety and this does not constitute a guarantee regarding specific properties due to handling or incorrect prevention measures.