

Material Safety Data Sheet

Date prepared: 26th July 2013

Date revised: 25th July 2018



Avanti Environmental Group Limited

1. Identification of the Substance/Preparation and the Company/Undertaking

Substance or preparation trade name: Recycled PE (Polyethylene)
Synonyms: Recycled High Density Polyethylene (HDPE), Recycled Low Density Polyethylene (LDPE), Recycled Ethylene Polymers and Recycled Copolymers

Unique reference numbers(s): **FP002, FP032, FP033, FP038, FP250, FP040**
Company/undertaking name & address: Avanti Environmental Group Ltd
Recycling Centre
Kitling Road
Knowsley Business Park
Merseyside
L34 9HL

Telephone: 0151 548 6130
Emergency telephone number: 0333 240 6666

2. Composition

%	Substance	CAS Number	Classification	EINECS
>97	PE (Polyethylene)	9002-88-4	N/A	N/A
<=3	Proprietary additives	N/A	N/A	N/A

3. Hazards Identification

Hazards Overview:

Spilled pellets create slipping hazard. Pellets can burn in a fire creating dense toxic smoke. Molten plastic can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation.

Secondary operations such as grinding, sanding or sawing can produce dust which may present a respiratory hazard.

Product in pellet form is unlikely to cause irritation

MELT PROCESSING Hazards

Molten plastic can cause severe burns. Processing fumes may cause irritation to eyes, skin and respiratory tract and in cases of severe overexposure nausea and head ache.

MELT PROCESSING Hazards

There are no known medical conditions that are aggravated by exposure to this product; however certain sensitive individuals and those with respiratory impairments may be affected by exposure to the processing fumes.

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4. First aid measures

- Skin contact:** The product is not likely to be hazardous by skin contact, but maintaining good hygiene practices is advised, cleanse after contact. If molten polymer gets on skin cool rapidly with cold water and DO NOT attempt to peel polymer from skin. Obtain medical treatment for thermal burn.
- Eye contact:** Immediately flood the eye with plenty of water for at least 10 minutes holding the eye open. Obtain medical advice if soreness or redness persists.
- Ingestion:** No specific intervention is required as the compound is not likely to be hazardous by ingestion. Seek medical advice if necessary.

For processing fume inhalation irritation, leave the contaminated area and breathe fresh air. If coughing or other symptoms develop seek medical attention at once.

For skin contact with fume condensate, wash affected area with soap and water. If irritation develops seek medical attention.

5. Fire fighting measures

- Suitable extinguishing media:** Water, AFFF (foam), Dry powder, CO₂
- Unsuitable extinguishing media:** None
- Special hazards in fire:** Gases and vapours are produced: ammonia, carbon monoxide, hydrogen cyanide and aldehydes
- Required special protective equipment for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions:** Wear appropriate protective clothing
- Environmental precautions:** Contain the spill and protect drains and other watercourses
- Methods for cleaning:** Pick up spillages with scoop and brush

7. Handling and storage

- Handling:** No special handling required
- Storage:** Store in original containers, keep dry

CAUTION: Polyethylene pellets on floors are slippery and may create a slipping hazard

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8. Exposure Controls

Engineering measures:	Use local exhaust ventilation to control fumes from hot processing
Control Parameters:	Not applicable
Personal protection equipment:	If there is potential for contact with molten material, wear heat resistant gloves, clothing and footwear
Eye protection:	Wear safety goggles or splash goggles and face shield if the potential exists for contact with molten material
Hand protection:	If there is potential for contact with molten material, wear heat resistant gloves
Hygiene measures:	Wash hands after use

9. Physical and chemical properties

Appearance:	Solid (flake, crumb or pellet)
Odour:	Odourless
pH:	Not applicable
Boiling point:	Not determined
Melting point:	105 ^o C - 130 ^o C
Flashpoint:	341 ^o C
Explosive properties:	Not applicable
Vapour pressure:	Not applicable
Relative density:	0.91 – 0.96
Solubility:	Insoluble in water Insoluble in fats

10. Stability and reactivity

Conditions to avoid:	Exposure to flame or temperatures >299 ^o C for prolonged periods of time
Materials to avoid:	Not applicable
Hazardous decomposition products:	Hazardous gasses or vapours can be released including cyclopentanone, carbon monoxide, aldehydes and ammonia.

11. Toxicological information

Acute toxicity:	No toxicological data is available
Local effects	
Excessive exposure may affect human health as follows:	
Skin contact:	Irritation
Eye contact:	Irritation
Inhalation/ingestion:	Irritation

12. Ecological information

No data is available on the adverse effects of this product on the environment; Aquatic toxicity is low based upon insolubility with water

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13 Disposal Considerations

Routes for disposal are (1) recycling, Incineration with energy recovery (2) and landfill (3). Recycling is the most appropriate route while the materials high calorific value makes option 2 desirable for material that cannot be recycled. Treatment, storage and disposal must always be carried out in accordance with local legislation.

14. Transport information

Classification data: Not classified for transport

15. Regulatory information

Not regulated

16. Other Information

Recommendations/restrictions:

MEDICAL USE: Do not use in medical applications involving implantation into the human body

Note to reader:

To the best of our knowledge the information contained herein is accurate.
No liability can be accepted arising out of the use, application or processing of this product.
It is the users' responsibility to determine safe conditions for the use of this product within the user's local legislative requirements.
Further advice can be sought from local health and safety authorities