ITD Ltd.

Production of moulds, preforms, plastic bottles, vials and caps

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MATERIAL SAFETY DATA SHEET

Company/ Producer: ITD Ltd
22 Hristo Botev str., Saedinenie – Bulgaria
BG 115 032 925

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Product name:
Recycled Polyethylene terephthalate granules

1.IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product identifier

Product Name:
Recycled Polyethylene terephthalate granules

Synonyms:
Polyethylene terephthalate resin
Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenylenecarbonyl)
Molecular formula: (C10H8O4)n
CAS Number: 25038-59-9

1.2 Identified use

Molding processes.
Extrusion processes.
Recommended restrictions
Do not use in medical applications involving permanent implantation in the human body.

1.3 Company / Producer

ITD Ltd Company production of plastic packaging
Address register: 22 Hristo Botev Str., Saedinenie - Bulgaria
Address of the production base: 72 Chardafon Veliki Str., Saedinenie - Bulgaria

2. HAZARDS INDENTIFICATION

2.1 Classification of substance and mixture

Not a hazardous substance or preparation according to Regulation (EC) No 1272/2008 (CLP).
The hazards of this product are associated mainly with its processing.
Resin particles, like other inert materials, are mechanically irritating to eyes.
Molten polymer will adhere to the skin and can cause severe burn.

2.2 Labeling

3. COMPOSITION/INFORMATION ON INGRADIENT

3.1- Composition / information

Chemical name of the substance:
Polyethylene terephthalate

4. FIRST AID MEASURES

4.1 First aid measures

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating of combustion. Consult a physician after significant exposure.
Skin contact: Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin.
Obtain medical attention.
Eye contact: Rinse with plenty of water
Ingestion: Treat symptomatically

4.2 Main symptoms and effects acute and delayed

Particles / dust are mechanically irritating to eyes.
Molten polymer will adhere to the skin and can cause severe burn.

4.3 Advice to physicians

5. FIREFIGHTING MEASURES

Low fire hazard.
Combustion will evolve irritant vapours.
At complete combustion, the major products formed are carbon dioxide and water.

Extinguishing media:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray, dry chemical.

Special firefighting procedures: wear self contained breathing apparatus and protective clothing.

Hazardous combustion products:
Carbon dioxide, carbon monoxide

Unusual fire and explosion hazards:
Powdered material may form explosive dust-air mixture.
High voltage static electricity build-up and discharge must be avoided when significant quantities of powdered material are present.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions
Personal precautions: None.
Personal protection: None in normal use

6.2 Environmental precautions
Environmental precautions: No special environmental precautions required.

6.3 Containment and cleaning up
Methods for cleaning up: Sweep-up to prevent slipping hazard. In case of high dust deposit use a vacuum cleaner.

7. HANDLING AND STORAGE

7.1 Handling
Advice on safe handling: None under normal processing.

The solid polymer can only be burned with difficulty
Provide exhaust ventilation at places where dust is formed.
Take precautionary measures against static discharges.

7.2 Storage
Requirements for storage area containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container
Advice on common storage: No materials to be specially mentioned.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
8.1 Control parameters
In case of dust, concentration must be below 10mg/m3 (TLV-TWA 8h)

8.2 Personal protection
Respiratory protection: In the case of breathable dust and/or fumes, use mask and/or self-contained breathing apparatus.
Skin protection: None required; however use of protective gloves/clothing is good industrial practice. Wear thermal insulating gloves when handling hot masses.
Eye protection: None required; however use of safety glasses is good industrial practice. Wear face shield when handling hot masses.
Hygiene measures: Wash hands before breaks and at the end of workday
General precautions for all: Do not breathe fumes evolved

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Physical and chemical properties
Appearance
Form: Granular
Colour: On request of the client- White, Blue, Brown, Green
Odour: Slight

Safety data
Melting point range: 230 - 265 oC
Ignition temperature: >500 oC
Specific gravity (water =1): >1
Bulk density: 760 - 840 kg/m3
Water solubility: Insoluble
Octanol / water Partition coefficient: Not applicable
pH: Not applicable
Explosive limits: Not available
Flash point: Not applicable
Autoignition temperature: Not available

9.2 Other information
None.

10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal use condition
10.2 Chemical stability
Stable
10.3 Possible hazardous reactions
Hazardous decomposition (combustion) products: carbon dioxide; carbon monoxide; acetaldehydes; other harmful products
Hazardous reactions: stable under recommended storage conditions.

10.4 Conditions to avoid
Conditions to avoid: avoid dust concentration
10.5 Materials to avoid
Acetic anhydride
Benzene
Chloroform
Acetone
Dimethylformamide
Chromic acid

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information
Acute oral toxicity: No data available
Skin irritation: Pellets may cause skin irritation
Mutagenicity: Not considered to be a mutagenic hazard
Carcinogenicity: Not a carcinogen
Human effects: Not available

12. ENVIRONMENTAL INFORMATION

12.1 Toxicity
This product has no known eco-toxicological effects.

13. DISPOSAL CONSIDERATIONS

13.1 Method for the treatment of waste.

Product: like most thermoplastics the product can be recycled.
Recycling when possible is preferred to disposal or incineration.
Can be land filled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

14.1 UN Number
Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 Regulation and legislation in the field of safety, health and environment specific.

The product is non-hazardous in accordance with;

Regulation (EC) No. 282/2008 on recycled plastic materials and articles intended to come into contact with foods and amending Regulation (EC) No. 2023/2006.

REGULATION (EU) No 10/2011of 14 January 2011on plastic materials and articles intended to come into contact with food

REGULATION (EC) No 1935/2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC

15.2 Cemical safety assessment (CSA)

Not applicable

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.