



# MATERIAL SAFETY DATA SHEET

PET Preforms

According to regulation (EC) No 1907/2006

BRC Site Code : 9844172

Date 27/12/2016

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PET

Synonym(s): PET , Polyethylene Terephthalate , PET resin

Chemical Name: Polyethylene Terephthalate

Supplier details:

RESILUX South Europe

GRC

Contact number:

Application purpose: Use for thermoplastics processing by injection blow moulding for bottles and packaging

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Polyethylene Terephthalate ( Co polyester )

Common name: PET

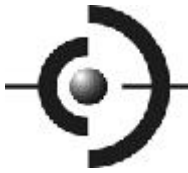
CAS-no: 25038-59-9

Chemical: (C<sub>10</sub> H<sub>8</sub> O<sub>4</sub>)<sub>n</sub>

Weight : > 98% of polymer ( exempt from REACH )

PET Polymer is a composition of always the same components which are monomers/substances

Substance	CAS Number
Terephthalic acid	100-21-0
Isophthalic acid	121-91-5
Ethylene glycol	107-21-1
Diethylene glycol	111-46-6



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## 3. HAZARDS IDENTIFICATION

Appearance & Order: Solid. Essentially odourless

Human health hazards: Molten product adheres to the skin and causes thermal burns.

Safety hazards: No specific hazards

Environmental hazards: Not classified as dangerous

Other hazards: Not classified as dangerous for supply or conveyance.

## 4. FIRST-AID MEASURES

Inhalation: If symptomatic move to fresh air. Get medical attention if a symptom persists.

Eyes: If molten material contacts the eye(s), immediately flush with plenty of water for at least 15 minutes, get medical attention immediately.

Skin: If burned by molten material, cool as quickly as possible. Do not peel the material from the skin. Get medical attention.

Ingestion: Seek medical advice.

Advice to Physicians: Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, Carbon dioxide, Dry chemicals.

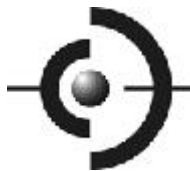
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

## 6. ACCIDENTAL RELEASE MEASURES

Clean-up, sweep or scoop up and remove.



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## 7. HANDLING AND STORAGE

Personal precaution measures: Avoid contact with molten material.

Handling: Avoid extreme condition of heat and humidity. Avoid build up of static electricity. Avoid contact with heated or molten product. Do not breathe fumes or vapours from heated product. Avoid generation or accumulation of dusts.

Storage: Keep container tightly closed and dry. Keep away from direct sunlight. Keep away from heat. Pellets on the floor may be slippery and cause falls. Store in boxes in accordance with good material handling practices.

Product transfer: Take precautionary measures against static discharge. Earth all equipment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Threshold Limit Value (TLV): not established

Chemical and physical characteristics of the hazard products: All ingredients are considered in compliance with Food and Drug Administration food additive regulation 21 CFR 177 1630.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State: solid
- Odour: odourless
- Specific Gravity (water = 1): >1
- Melting Point: >243°C
- Decomposition temperature: : >350°C
- Solubility in Water at Ambient Temperature: insoluble
- Flash Point: 370°C



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## 10. STABILITY AND REACTIVITY

Stability: stable

Materials to avoid: Oxidizing agents

Hazardous Polymerization: will not occur

## 11. TOXICOLOGICAL INFORMATION

Inhalation: Low hazard for usual industrial handling by trained personnel.

Eyes: Molten material will produce thermal burns.

Skin: Molten material will produce thermal burns.

Carcinogenicity: No known hazard

## 12. ECOLOGICAL INFORMATION

Mobility: Sinks in water

Persistence/Degradability: Not readily biodegradable. Integrated environmental half-life expected to be  $\geq 100$  days. The product will persist in the environment as lumps of particles and will not disperse.

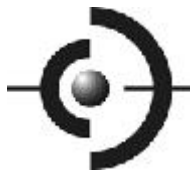
Bioaccumulation: Not expected to bioaccumulate significantly.

Sewage treatment: Expected to be not toxic at limit of water solubility.

Other information: Product is not toxic, but small particles may have physical effects on aquatic and terrestrial organisms.

## 13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws.



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## 14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADR / RID and IATA / ICAO codes.

- Air - International Civil Aviation Organization (ICAO)
- ICAO Status: not regulated
- Sea - International Maritime Dangerous Goods (IMDG)
- IMDG Status: not regulated

## 15. REGULATORY INFORMATION

### EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

EC classification: Not classified as dangerous under EC criteria.

EINECS ( EC) status: European Inventory of Existing Commercial Chemical Substances : Polymer exempt.

## 16. OTHER INFORMATION

This information is based on our present state of knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements.

The information in this document should be made available to all that may handle the product.