



Chemco Moulding  
Solutions Private Limited



## Material Safety Data Sheet

### 1. Product and Company

<b>Product Name</b>	Recycled Polyethylene Terephthalate (rPET) Chips/Resin
<b>Product Code / Grade</b>	Chemco rPET 0.76 / Chemco rPET 0.80 / Chemco rPET 0.84
<b>Product Application</b>	PET bottles/containers/jars, PET extrusion sheets, PET straps, FIBC Bags
<b>Manufacturer</b>	Chemco Moulding Solutions Private Limited, Plot No. PE – 543, Bol Sanand Industrial Estate, Sanand-II, Sanand, Ahemadabad-382110, Gujarat, India
<b>Head Office</b>	Chemco House, 6th Floor, D Sukhadwala Road, Fort, Mumbai-400001, India www.chemcogroup.com
<b>For Product Information</b>	1800-22-1777

### 2. Hazard Identification

This product is not hazardous to health and environment according to EC directions

<b>Human health hazards</b>	No specific hazard as is, however molten product adheres to the skin can cause burns
<b>Safety hazards</b>	No specific hazards
<b>Environmental hazards</b>	Not classified as dangerous under EC criteria
<b>Other hazards</b>	Not classified as dangerous for supply or conveyance. However, fines and dust may be a fire hazard in ignition source.

### 3. Composition Information on Ingredients

<b>Chemical Identity / Name</b>	Polyethylene terephthalate (PET)
<b>CAS No.</b>	25038-59-9
<b>Concentration</b>	>99%

### 4. First Aid Measures

<b>Inhalation</b>	Inhalation of dust and exposure to fume from overheating of products should be avoided by hood suction and fresh air ventilation. In case of coughing or other symptoms, the person should seek fresh air and if necessary, see a physician.
<b>Skin contact</b>	If molten polymer contacts the skin, it may cause thermal burns, immediately cool skin with a large amount of cold water., do not peel the polymer, see a physician.
<b>Eye contact</b>	Use safety glass with shield. If dust, fines and process vapours come in contact with eye, it can irritate the eyes, rinse immediately with plenty of clean water and see a physician if irritation persists.
<b>Ingestion</b>	Adverse health effects are not anticipated. If symptoms develop, see a physician.

### 5. Fire Fighting Measures

<b>Decomposition Temperature</b>	Above 300 °C, exposure hazards not classified as flammable but will burn. Hazardous combustion Products may include carbon monoxide, toxic gases.
<b>Fire extinguishing media</b>	Water Spray or fog, dry Chemical Powder and Carbon dioxide. Do not use water if fire is caused by an electrical short circuit.
<b>Protective equipment</b>	Wear self-contained breathing apparatus, protective clothing and headgear to prevent contact with skin & eyes.

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### 6. Accidental Release Measure

<b>Personal precautions</b>	Spillage as is a slippery, avoid spillages, barricade the area clear it off in case of spillage. Keep away from ignition sources, wear protective equipment, keep unskilled person away. Ensure adequate ventilation.
<b>Environmental precautions</b>	In case of accidental spills, do not allow entering drains and waterways. Dispose in accordance with legal and local authority requirements. Use proper personal protection.
<b>Methods for cleaning up</b>	Clean up by vacuuming, after vacuum cleaning, do wet sweeping to minimize dust exposure. Sweep wastes can be disposed in a suitable chemical waste container.

### 7. Handling and Storage

<b>Handling</b>	Ensure adequate ventilation, Avoid accumulation of dusts. Ensure good Hygiene practices are maintained. Dust accumulation may represent a Fire Hazard, remove ignition sources and electrostatic charges.
<b>Storage</b>	Can be stored at Ambient temperature. Store in a cool, dry, well-ventilated area. Do not store directly under sunlight or near to any other light sources, Store away from incompatible substances, foodstuffs, strong oxidizing material, strong odour substances, Store in tightly closed containers, Keep the container closed when not in use. Maintain good housekeeping to control dust accumulations.

### 8. Exposure Controls and Personal Protection

<b>Exposure limit values</b>	Comply with Permissible exposure limit. According to TRGS 900 (Germany) a) 3 mg/m <sup>3</sup> - for fine dust b) 10 mg/m <sup>3</sup> - for coarse dust
<b>Exposure controls</b>	Avoid accumulation of dust and decomposition products during extrusion operations by hood suction, sufficient fresh air supply and proper house keeping.
<b>Engineering Controls</b>	Mechanical ventilation should be used during processing to remove any dusts, mists, or vapours which may be generated.
<b>Respiratory protection</b>	Industrial hygienist approved respiratory protection should be worn. Use of dust protection mask or self-contained breathing apparatus.
<b>Hand protection</b>	Certified Protective gloves are required when handling hot polymer.
<b>Eye protection</b>	Safety glass or a face shield are recommended to prevent particulate from entering eyes while grinding, cutting, machining and during processing.
<b>Skin protection</b>	Use full hand covered clothes and long pants or hot suite while handling molten polymer. Gloves to prevent thermal burns. A safety shower and washing facilities should be available.
<b>Environmental exposure controls</b>	Exhausted dust and decomposition products shall be properly collected and disposed off as per legal and local authority requirements.

### 9. Physical and Chemical Properties

<b>Appearance</b>	Pellets, Opaque off-white
<b>Odour</b>	Odourless
<b>pH</b>	Not applicable
<b>Melting point</b>	Above 240 °C
<b>Flash point</b>	Not determined
<b>Flammability</b>	Data not available
<b>Explosive properties</b>	Data not available
<b>Oxidising properties</b>	None
<b>Vapour pressure</b>	Not applicable
<b>Relative density</b>	> 1.35 g/cm <sup>3</sup>

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<b>Solubility</b>	Insoluble in common solvents
<b>Water solubility</b>	Insoluble
<b>Partition coefficient</b>	Not applicable
<b>Viscosity (intrinsic viscosity)</b>	Refer TDS
<b>Vapour density</b>	Not applicable
<b>Evaporation rate</b>	Not applicable

### 10. Stability and Reactivity

<b>Chemical Stability</b>	Stable in normal ambient conditions.
<b>Conditions to avoid</b>	High temperature, flame and other sources of ignition. Strong oxidation agents as well as strong acids, caustic and water will decompose polyester.
<b>Hazardous decomposition Products</b>	If decomposed it may produce the major volatiles will be terephthalic acid, oligomers of PET, carbon dioxide, carbon monoxide, Acetaldehyde, and low molecular weight alcohols/aldehydes.

### 11. Toxicological Information

<b>Acute toxicity</b>	Oral LD 50 > 5000 mg / kg in rat
<b>Inhalation</b>	Low acute toxicity. Dusts and vapours or fumes evolved during thermal processing may cause irritation to the respiratory system.
<b>Skin irritation</b>	No evidence of irritant effect from normal handling and use.
<b>Eye irritation</b>	Dust may have irritant effect on eyes.
<b>Ingestion</b>	Data not available.

### 12. Ecological information

<b>Toxicity</b>	Low toxic
<b>Mobility</b>	The product is insoluble in water, expected to have a low BOD and will not cause oxygen depletion in aquatic systems.
<b>Persistence and degradability</b>	The product is non-biodegradable in soil.
<b>Bio accumulative potential</b>	No evidence of hazardous effect on the environment.
<b>Other adverse effects</b>	No further relevant information available.

### 13. Disposal Considerations

<b>Recommendation</b>	Recycling, if not practical, dispose in accordance with legal and local authority requirements.
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### 14. Transport Information

<b>UN number</b>	Not applicable (as not a hazardous substance)
<b>Class/ Packing group</b>	Not restricted
<b>International Transport Regulations</b>	Not classified as dangerous for transport.
<b>Marine Pollutant</b>	None
<b>Road ADR/RID (cross-border) ADR/RID class</b>	Not restricted
<b>Sea transport (IMDG)</b>	Not restricted
<b>Air transport ICAO-TI and IATA-DGR)</b>	Not restricted

### 15. Regulatory Information

<b>EC classifications</b>	Not classified as dangerous under EC criteria.
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### 16. Other Information

All the information's are based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. 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.

Any specific or further information please reach us at [info@chemcogroup.com](mailto:info@chemcogroup.com)

Phone no : 1800-22-1777

#### Disclaimer

The material safety data Sheet is only for reference; no responsibility is held that the information is sufficient or correct in all cases. Users should consider these data only as supplementary and do their own analysis for the compatibility and completeness of information from all the sources to assure proper use and disposal of the materials for the safety and health of employees, customers and the protection of the environment. This MSDS relates only to the material specified herein and does not relate to use in combination with any other material or in any process. This MSDS can be modified or updated (as per the requirement) as and when required so the customers are requested to approach Chemco for obtaining the updated version.