



# Material Safety Data Sheet

Date of publication: 12 APRIL 2008

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

PRODUCT NAME : OCTAL PET  
PRODUCT CODE : GP01, WG02, RH03, SG04, GS05  
PRODUCT TYPE : Thermoplastic  
COMPANY IDENTIFICATION: OCTAL PETROCHEMICALS FZC  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME Polyethylene Terephthalate (PET)  
SYNONYMS Polyethylene glycol Terephthalate  
CHEMICAL FAMILY Co polymer resin  
CHEMICAL FORMULA  $(C_{10}H_8O_4)_n$   
WEIGHT % >99  
CAS NUMBER 25038-59-9

## 3. HAZARDS IDENTIFICATION

APPEARANCE & ODOR Solid & Odorless  
HUMAN HEALTH HAZADARDS Molten Polymer adheres to the skin and can cause severe burns  
SAFETY HAZARDS No specific hazards  
OTHER HAZARDS Not classified as dangerous  
CARCINOGENICITY INFORMATION None of the components of this product at concentration equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as carcinogenic.



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## 4. FIRST AID MEASURES

SYMPTOMS & EFFECT:	Not expected to give rise to an acute hazard under normal condition of use.
SKIN	If burned by contact with molten material, cool affected part as quickly as possible. Don't try to peel solidified polymer from skin, seek medical attention.
EYES	In case of contact, flush eye with plenty of water for at least 15 minutes. If rapid recovery does not occur, obtain medical attention.
INHALATION	If any adverse effects occur, move to fresh air, get medical attention immediately.
INGESTION	Not an expected route of exposure during normal use of the product. If ingested, consult a physician.
ADVICE TO PHYSICIAN	Burns should be treated as thermal burns.

## 5. FIRE FIGHTING MEASURES

SPECIFIC HAZARDS	Not classified as flammable, but will burn. Combustion products may be carbon monoxide, carbon dioxide and toxic gases.
EXTINGUISHING MEDIA	Water spray, foam, dry chemical powder, carbon dioxide sand and soil may be used for a fire minor in nature.
UNSUITABLE EXTINGUISHING MEDIA	Water in a jet.
SPECIAL FIREFIGHTING MEASURES	Wear self-contained breathing apparatus and fire-proof clothes meeting NIOSH standards. Avoid excessive inhalation of smoke or potential thermal decomposition products.

## 6. ACCIDENTAL RELEASE MEASURE

IN CASE OF SPILL OR OTHER RELEASE	Shovel up and transfer to a labeled and sealable container for product recovery or safe disposal.  Spills and release may have to be reported to Federal and/or local authorities.
PERSONAL PRECAUTIONS	Take care during disposing of molten polymer. Avoid raising a dust cloud.



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## 7. HANDLING AND STORAGE

PERSONAL PRECAUTIONARY MEASURES	Avoid contact with hot or molten material. Always wear recommended personal protective products.
PHYSICAL	Use local exhaust extraction during handling or accumulation. Take precautionary measures against static discharging. Ground all equipment. Avoid dust accumulation.
STORAGE RECOMMENDATIONS	Keep container closed and away from direct sunlight and heat. Storage temperature should be ambient. Store in a cool and well ventilated area. Keep away from open fire, heat sources, and oxidizing material.
PRODUCT TRANSFER	Take precautionary measures against static discharge and ensure proper grounding of all the equipment.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION	Good ventilation typically 10 air cycles per hour should be ensured and rate should be matched to conditions. Mechanical ventilation should be used during processing to remove any dusts, mists and/or vapors that may be generated.
RESPIRATORY PROTECTION	Normally not required but in case local exhaust is not practical need to wear approved dust/vapor respirator.
RESPIRABLE PARTICULATES	TWA (8 hrs.) – 3mg/m <sup>3</sup>
INHALEABLE PARTICULATES	TWA (8 hrs.) – 10mg/m <sup>3</sup>
HAND PROTECTION	Impervious gloves should be worn. (PVC, Neoprene or Nitrile rubber gloves)
EYE PROTECTION	Wear safety glasses with side shields or goggles.
BODY PROTECTION	Protective clothing and safety shoes/boots should be worn during molten polymer handling.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid granules / Pellets
COLOR	Opaque to transparent
ODOR	Odorless
pH	Not applicable
MELTING POINT	Normally 245 °C – 260 °C
BOILING POINT	Not applicable
AUTO IGNITION TEMPERATURE	500 °C
BULK DENSITY	830 – 860 Kg/m <sup>3</sup> at 20 °C
SOLUBILITY IN WATER	Insoluble
VAPOR PRESSURE	Not applicable

## 10. STABILITY AND REACTIVITY

STABILITY	Stable, hygroscopic. During processing some thermal degradation occurs. Decomposes at 340 °C
HAZARDOUS POLYMERIZATION	Will not occur.
INCOMPATIBILITY	React with strong oxidizing agent such as chlorine & fluorine.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion products may be carbon dioxide & carbon monoxide. Thermal decomposition products can be Acetaldehyde and Ethylene.

## 11. TOXICOLOGICAL INFORMATION

Specific test to toxicity level has not been conducted on this product. Our evaluation to hazardous is based on information from similar product, the ingredients, technical literature & professional experience.

No components of this product at levels greater than 0.1% is identified as a carcinogen by

- The US National Toxicology Program (NTP)
- The US Occupational Safety & Health Administration (OSHA)
- The International Agency for Research on Cancer (IRAC)
- American Conference of Governmental Industrial Hygienists (ACGIH)



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## 12. ECOLOGICAL INFORMATION

BASIS FOR ASSESSMENT	Eco toxicological data has not been determined specifically for this product. The information stated below is based on the knowledge of the components and the eco toxicology of similar products.
MOBILITY	Sinks in water.
DEGRADABILITY	Not readily biodegradable. The product will persist in the environment as lumps of particles and disperses very slowly.
BIOACCUMULATIONS	Not expected to bio accumulate significantly.
SEWAGE TREATMENT	Expected to be non-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

WASTE DISPOSAL	Recover or Recycle if possible otherwise, proceed for incineration.
PRODUCT DISPOSAL	Recover or Recycle if possible, otherwise proceed for incineration.
CONTAINER DISPOSAL	Remove all packaging from containers for the recovery or waste disposal. Ensure safe disposal in accordance with Province / State or local regulations

## 14. TRANSPORT INFORMATION

DOT	Class not regulated
ICAO	Class not regulated
IMDG	Class not regulated
ADR / RID	Class not regulated



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## 15. REGULATORY INFORMATION

Components of this product are listed in TSCA (Toxic Substances Control Act.). This product either contains or is manufactured with class I & class II ozone depleting substances.

This documentation has been prepared in accordance with requirements of OSHA Hazards & Communication Standard 29 CFR 1910.1200.

EC – CLASSIFICATION                      Not classified as dangerous under EC criteria.

EINECS (EC)                                  Polymer exempt.

## 16. OTHER INFORMATION

Visit our website at [www.octal.com](http://www.octal.com) or call operator +968 23 21 75 00

USES AND RESTRICTIONS                  Use for thermoplastics

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

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