

**RECRON (MALAYSIA) SDN. BHD.**  
(COMPANY NO. 781769-K)  
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**MATERIAL SAFETY DATA SHEET**

INVOICE NO.: PC/4122010999  
DATE : 12.02.2016  
GOODS : POLYESTER (PET) CHIPS (BOTTLE GRADE)

1. Identification of Substance

Production details	: PET 6868
Trade name	: Polyester Polymer
Manufacturer / Supplier	: Recron (Malaysia) Sdn. Bhd.
Information department	: POLYESTER PLANT 1
Emergency information	: 606-7992855
Fax number	: 606-7997980

2. Composition / Data on components

Chemical characterization	: Polyester polymer
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3. Hazards Identification

Hazard designation	: void
Information pertaining to particular danger for man and environment	: void

4. First Aid Measures

General information	: Instantly remove any clothing soiled by the product.
After inhalation	: After inhalations of hot vapors during processing remove patient to the fresh air at once. The symptoms persist, consult doctor.
After skin contact	: The product is not skin irritating. After contact with the molten product, cool rapidly with cold water. Do not pull solidified product away from the skin.
After eye contact	: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing	: In case of persistent symptoms consult doctor.
Information for doctor	: Burn should be treated as thermal burns. The material will come off as healing accurse; therefore removal from the skin is not necessary.

5. Fire fighting measures

Suitable extinguisher agents	: Use fire fighting measure that suits the environment, CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol – resistant foam.
Special hazards caused by the material , its products of combustion or fuel gases	: Can be released in case of fire - Carbon monoxide (CO)

## PET 6868

- Carbon dioxide (CO)

Protective equipment : Wear self – contained breathing apparatus  
Wear full protective suit.

### 6. Accident release measure

Person – related safety precautions : Not required.  
Measure for environmental protection : Do not allow product to reach sewage system or water bodies.  
Measures for cleaning /collecting : Collect mechanically.  
Additional information : No dangerous materials are released.

### 7. Handling and store

#### Handling

Information for safe handling : Avoid formation of dust.  
Information about protection against explosion and fires : Dust can combine with air to form an explosive mixture.

#### Storage

Requirements to be met by storeroom and containers,  
- Information about storage in one common storage facility : Store away from oxidizing agents.  
- Further information about storage conditions : Keep container tightly sealed.

### 8. Exposure controls and personal protection

Additional information about design of technical systems : No further data.

Components with critical values that require monitoring at the workplace:

<i>CAS No.</i>	<i>Designation of material</i>	<i>type</i>	<i>Value</i>	<i>unit</i>
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The product does not contain any relevant quantities of material with critical. That has to be monitored at the workplace.

Additional information : The lists that were valid during the compilation were used as basic.

#### Personal protective equipment

General protective and hygienic measures : The usual precautionary measures should be adhered to in handling the chemicals.

Breathing equipment : Dust mask recommended.

Protection of hands : Not required.

Eye protection : Safety glasses.

Body protective : Work clothing.

### 9. Physical and chemical properties

Form : Granulate

Color : Colorless

#### Change in condition

Melting point / Melting range : 242 – 256 deg C

# PET 6868

Boiling point / Boiling range	: - deg C
Flash point	: Not applicable
Ignition temperature	: 480 deg C
Danger of explosion	: Product is not explosive. However, formation of explosive air / steam mixtures is possible.

<u>Critical value for explosive</u>			
Lower	: - n.a	-	Vol %
Upper	: - n.a	-	Vol %
Steam pressure	: at 20 deg C	n.a	- mbar
Density	: at 20 deg C	1.34-1.37	g/cm3
Settled apparent density	: at 20 deg C	780-820	Kg/m3
Solubility in / Miscibility with Water	: Insoluble.		

## 10. Stability and reactivity

Thermal decomposition / conditions to be avoided	: No decomposition if used according to specifications.
Dangerous reactions	: Reacts with strong oxidizing agents.
Dangerous products of decomposition	: No dangerous decomposition products known.

## 11. Toxicological information

<u>Acute toxicity</u>			
LD/LC50 values that are relevant for classification :			
<u>Components</u>	<u>Type</u>	<u>Value</u>	
<u>Species</u>			
Polyester polymer	oral	>3.200 mg/kg	rat
	Dermal	>1.000 mg/kg	gp
	Inhalative	n.a mg/l/4h	rat
<u>Primary irritant effect</u>			
On the skin	: Slight irritation possible.		
On the eye	: Slight irritation is possible.		
Sensitization	: No sensitizing effect known.		
Additional toxicological information	: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The material is not subject to classification according to EC lists in the last version.		

## 12. Ecology information

<u>General notes</u>	
Water hazard class 1 ( self – assessment)	: Slight hazardous for water.

## 13. Disposal Consideration

# PET 6868

## Product

Recommendation : Contact manufacturer for recycling information.  
Must be specially treated under adherence to official regulations.  
Smaller quantities can be disposed with household garbage.

## Uncleaness packaging

Recommendation : Disposal must be made to official regulations.

## 14. Disposal Consideration

### Land transport ADR / RID and GGVS / GGVE ( cross-border / domestic)

ADR / RID – GGVE / E Class	: -
Maritime transport IMDG / GGVSea	: -
IMDG / IATA Class	: -
Air transport ICAO – TI and IATA – DGR	: -
ICIO / IATA Class	: -
Transport / Additional information	: Non-dangerous goods according to these transport regulations.

## 15. Regulation information

Designation according to EC guidelines : Observe the normal safety regulations when handling chemicals.  
The material is not subjected to classification according to EC lists and other sources of literature known to us.  
The product is not subject to identification regulation under EC.  
Directives and the Ordinance on Hazardous Materials (GefStoffv).

### National regulations

#### Water hazard class

Water hazard class 1 ( Self – assessment ) : Slightly hazardous for water.

## 16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing data specification sheet : POLYESTER PLANT 1

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