

# MSDS

Distributed by:

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: POLYREX<sup>®</sup> (Printing Foam)

Manufacturer's product code/s: PG-33, PG-35, PG-79, PG-79N, PG-80, PG-80N, PG383, PG383N, PG383M, PG383H, PG-22

Supplier/ Importer:

Zart Art Pty Ltd

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## 2. HAZARDS IDENTIFICATION

Most Important Hazards: None

Adverse Human Health Effects: None

Environmental Effects: None

Physical and Chemical Hazards: None

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Preparation:	Substance
Chemical Name:	Styrene Homopolymer
Content:	>95% (Additives ≤5%)
Formula:	(C <sub>8</sub> H <sub>8</sub> ) <sub>n</sub>
CAS No.:	9003-53-6
Impurities Contributing to Hazard:	None

## 4. FIRST AID MEASURES

Ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

Eyes: In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain.  
In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

Skin: In case of pellets or powder, wash with water.  
In case of melt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice.

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Inhaled: In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water, foam, dry chemical powder

Special fire-fighting Procedure: Self contained breathing apparatus.

Fire and Explosion Hazards: None

## 6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning Up: Recovery if not contaminated or disposal  
Personal Precautions: Pellets or Powder remained on ground may cause slipping.

Environmental Precautions: Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

## 7. HANDLING AND STORAGE

Handling: Prevent from fire around handling area. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters or bag filters.

Storage: Keep the materials at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Threshold Limit

Value: Not determined

Ventilation: Necessary to exclude dust, fumes and gases.

Personal Protection:

Eye: Wear safety glasses for general purpose. Wear chemical goggles for cleaning moulding machines.

Respiratory: Wear masks for cleaning moulding machines.

Gloves: Necessary for handling melted resin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent pellets  
Melting Temperature: Softening above 85°C  
Solubility: Insoluble in water  
Specific Gravity: 1.03 ~ 1.06

## 10. STABILITY AND REACTIVITY

Flammability: Yes  
Flash Point: 350 °C  
Auto-ignition Temperature: 490 °C  
Reactivity with Water: No  
Stable and non-reactive under normal handling and storage condition.  
Dust Explosion: Possible if powder exists.  
Explosion data for powder (<145 mesh)  
Lower explosion limit 15 g/m<sup>3</sup>  
Minimum ignition energy 40mJ  
Maximum explosion pressure 5 x 10<sup>5</sup> Pa  
Maximum pressure increase rate 3.4x10<sup>6</sup>Pa/S  
Thermal Decomposition Gases: CO, CO<sub>2</sub>, SM and dimmer  
Combustion Energy: 4.16 x 10<sup>7</sup> J/kg (9930 Kcal/kg)

## 11. TOXICOLOGICAL INFORMATION

Irritation: Fumes or vapours generated from decomposing resin may be irritant to eyes.  
Acute Oral toxicity (LD50): Not determined  
Mutagenicity: Not determined

## 12. ECOLOGICAL INFORMATION

To avoid being taken by ocean species or birds, disposal of the waste to the ocean and water sources is inhibited.

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## 13. DISPOSAL CONSIDERATIONS

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.  
Inadequate incineration may generate toxic gases such as CO and SM.

## 14. TRANSPORT INFORMATION

Not classified

## 15. REGULATORY INFORMATION

N/A

## 16. OTHER INFORMATION

The above information is accurate to the best of the knowledge available to us. However, since data, safety standards and Government regulations are subject to change, and the conditions of handling and use (or misuse) are beyond our control, we make no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein AND disclaim all liability for reliance thereon. Users should satisfy themselves that they have all data relevant to their particular use.