

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

MANUFACTURER / SUPPLIER

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PRODUCT INFORMATION

PRODUCT IDENTIFIER : ZX-324HTCoat
PRODUCT DESCRIPTION : Poly Ether Ketone (Base Polymer)
C A S # : 104135-57-1
PRODUCT USE : May be used for Surface coating.
TYPE OF POLYMER : Polycondensate Product (Base Polymer)

2. COMPOSITION / INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers, which are not expected to be hazardous.

Poly Ether Ketone

(C A S: 104135-57-1): 45%

WATER : 55%

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES : Product may cause irritation or injury due to mechanical action.

SKIN : Unlikely to cause skin irritation.

INGESTION : Not toxic

INHALATION : Not toxic

MELT PROCESSING

HEALTH EFFECTS:

Molten plastic can cause severe burns. Processing fumes may cause irritation to the eyes, skin and respiratory tract and in cases of severe exposure, nausea and headache.

Grease like processing fume condensate on ventilation ductwork, moulds and other surfaces can cause irritation and injury to skin. Dusts generated from mechanical processing may cause irritation to eyes, skin, or respiratory tract. This resin in pellet form is not expected to be hazardous.

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MEDICAL RESTRICTIONS: When heated up to processing temperatures, virtually all thermoplastics emit processing fumes. The exact composition and concentration of these processing fumes depend on the resin formulation including additives, the residence time in the processing equipment, equipment variables such as screw design, venting parameters etc. and the processing temperature. When the resin is processed as per our recommended guidelines (available on request) and taking normal precautions outlined below, there are no known adverse effects to human health. Certain sensitive individuals and those with respiratory impairments however may experience some temporary irritation by exposure to specific components in the processing fumes.

4. FIRST AID MEASURES

EYES : Remove contact lenses. Flush eyes well with copious quantities of water or normal saline for at least 15 minutes. Seek medical attention if irritation persists.

SKIN : Flush skin thoroughly with water. Remove and wash all clothing before reuse. Seek medical attention if rash Or burns occur.

INGESTION : As stated elsewhere, the product is non-toxic. However seek medical attention if ingested. (Never give anything by mouth to an unconscious person.)

INHALATION : Not likely to be inhaled due to physical form. If dust is inhaled, move to well-ventilated area. If necessary, seek medical help.

MELT PROCESSING : In case of skin contact with molten plastic, cool rapidly with water. Seek medical attention. Do not use solvent for removal.
In case of irritation from inhalation of processing fumes, leave contaminated area and breathe fresh air. If coughing, difficulty in breathing or any other symptoms develop, seek medical attention, even when symptoms develop at a later time.
In case of skin contact with fume condensate, wash thoroughly with soap and water. If irritation develops, seek medical attention.

SPECIAL PRECAUTION : Nil

INCOMPATIBILITY : Incompatibility – Prolonged contact with aromatic solvents

Conditions / Hazards : No data available To Avoid

5. FIRE FIGHTING MEASURES

FIRE FIGHTING MEASURES : Approved pressure demand breathing apparatus and protective clothing should be used for all Fire.

EXTINGUISHING MEDIA : Water spray and foam. Water is best extinguishing medium. Carbon dioxide and dry chemical are not recommended because of their lack of cooling capacity and may permit re-ignition.

CONDITIONS OF FLAMMABILITY : Requires a continuous flame source to ignite

STATIC DISCHARGE : Not sensitive to static discharge

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6. ACCIDENTAL RELEASE MEASURES

- GENERAL : Sweep or gather up material and place in proper container for disposal or recovery.
- WASTE DISPOSAL : Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.
- CONTAINER DISPOSAL : Unused material and empty containers must be disposed of in accordance with local, state and federal regulations.
- GENERAL : Store material in a cool, dry area, away from excess moisture.

7. HANDLING & STORAGE

- HANDLING: Follow good-standard industrial hygiene practices. Apply adequate ventilation direct to outside air. Do not inhale headspace air from the boxes. Avoid the formation of dust.
- STORAGE: Inert material under normal storage conditions. No special precautions required. Keep dry for optimum processing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- ENGINEERING CONTROLS: A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing of fume condensates may be a fire hazard and they may be hazardous; remove periodically from exhaust hoods, duct work and other surfaces using appropriate personal protection.
- PERSONAL PROTECTION:
- EYE/FACE: Wear safety glasses with side shields or chemical goggles. In addition, use full-face shield when cleaning processing fume condensates from hoods, ducts and other surfaces.
- SKIN: When handling pellets, avoid prolonged or repeated contact with skin. When melt processing product; wear long pants, long sleeves, and well-insulated gloves and face shield when applicable. Glove should be worn when handling hot material.
- RESPIRATORY: Good industrial hygiene practice requires adequate general ventilation of the workplace. When dust and powder, either from handling or secondary operations, such as grinding, sanding or sawing are not adequately controlled, use respirator approved for protection from dust. When processing fumes are not adequately controlled, use respirator approved for protection from organic and acid gases.

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9. PHYSICAL & CHEMICAL PROPERTIES

Physical State :	Liquid
Odour and appearance :	No Odour, Pellet.
Boiling point :	Not applicable
Melting point :	371°C
Vapour pressure (1 mm Hg) :	Negligible
Vapour density (air = 1) :	Not applicable
Specific gravity (water=1) :	About 1.5
Water solubility :	Insoluble
% Volatiles :	Negligible
pH :	Not applicable
Odour threshold :	Not applicable
Evaporation rate :	Negligible
Flash point :	Not applicable
Lower Flammability Limit :	Not established
Upper Flammability Limit :	Not established
Auto ignition :	>550°C
Decomp. Tmp :	> 400 °C

10. STABILITY & REACTIVITY

STABILITY :	Stable under recommended conditions of storage and handling.
REACTIVITY :	Not reactive under recommended conditions of handling, storage, processing and use.
IGNITION TEMPERATURE:	>550 °C
CONDITIONS TO AVOID :	Do not exceed melt temperatures mentioned in product literature. In order to avoid auto ignition / hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water. Do not allow product to remain in barrel at elevated temperatures for extended periods of time, purge with general-purpose resin.

11. TOXICOLOGICAL INFORMATION

Product :	PEK - Poly Ether Ketone
Toxicity :	Oral rat LD50(250 mg)
TSCA Inventory Status:	All ingredients are listed in TSCA inventory

12. ECOLOGICAL INFORMATION

GENERAL :	Not expected to present any significant ecological problems.
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13. DISPOSAL INFORMATION

WASTE DISPOSAL

- Recycling : This product may be recycled either back into original parts or into suitable other applications. Please consult our sales office for advice.
- Waste disposal : This product is not regarded as hazardous waste. Dispose in accordance with local regulations.

14. TRANSPORTATION INFORMATION

- GENERAL : This product is not subject to transport regulations.

15. REGULATORY INFORMATION

The MSDS is designed to be in compliance with EU directive 91/155/EEC as amended.

16. OTHER

The publication provides information and guidelines for safe handling and processing of our resins and is based on current available experience and knowledge. It is not designed as a comprehensive product performance data sheet or as a guide to application possibilities of your materials.

Users should follow all applicable local regulations governing Health and Safety at work and are requested to pass this publication on to all relevant employees and customers.