



PET

Product Name		PET		
Chemical Name		POLYETHYLENETEREPHTHALATE		
CAS NO		25038-59-9 (POLYMER)		
Product Use		Engineering Plastic Stock Shape for Machining		
Company Identification		PSR Industrial Ltd.		
Hazard Identification				
Eye		Dust and particles, like other inert materials, are mechanically irritating to eyes.		
Skin		Hot and molten material has the potential to cause thermal burns.		
Inhalation		Shapes not respirable.		
Ingestion		No specific information available on the product.		
Composition, Information on Ingredients				
		Additives not hazardous by 29 CFR 1910.1200.		
		Identity	CAS#	Concentration(%)
		NA	NA	NA
First Aid Measures				
Eye		Immediately flush eyes with plenty of water. Seek medical attention if discomfort persists.		
Skin		If hot and molten PET contact skin, cool rapidly with cold water. If PET is stuck to skin, do not remove, and seek medical attention. And allow adhered PET to come off naturally.		
Inhalation		PET is not likely to be inhaled due to physical form. When gas from molten PET is inhaled, move to fresh air.		
Ingestion		If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.		
Note to Physicians		Processing vapors may cause irritation to the eyes, skin and respiratory tract. In cases of severe exposure, nausea and headache can also occur.		
Fire Fighting Measures				
Flash Point		>355°C (>671°F)		
Autoignition Temperature		>420°C (>788°F)		
Unusual Fire, Explosion Hazards		None known.		
Hazardous		Product of Combustion		
		Fire will produce hazardous decomposition products such as carbonmonoxide, carbon dioxide, dense black smoke, aldehydes and organic acids.		
Extinguishing Media		Dry chemical, CO2 or alcohol-resistant foam.		
Firefighting Instructions		Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear (bunker gear). Product burns with a very hot, but very faint blue flame. Water, foam and dry chemical may cause damage to electrical equipment.		
Accidental Release Measures				
Personal Precaution		Sweeping to prevent fall.		
Environmental Protection		No special measures.		
Handling and Storage				
Handling		During machining of the stock shapes, evacuate swarf to prevent slipping hazard.		
Storage		Store in well-ventilated area away from heat and sunlight.		
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.		



PET

Protective Equipment

Eyes	Wear safety glasses with side shields should be sufficient for most processing and machining runs.
Skin	When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.

Exposure Guidelines

Operations involving grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standard.			
	Ingredient	Agency	Value
	Nuisance/Inert Dust	PEL(OSHA)	15mg/cm ³

Physical and Chemical Properties

Appearance	Solid
Smell	None
PH	Not applicable
Water Solubility	Insoluble
Boiling Point	Not applicable
Melting Point	255°C (491°F)
Vapor Pressure	Not applicable
Specific Gravity	1.33 ~ 1.43g/cm ³

Stability and Reactivity

Chemical Stability	Stable under normal conditions of use and storage.
Materials to Avoid	Strong oxidants and bases.
Hazardous Decomposition Products	No specific data.

Toxicological Information

Acute Toxicity	No information available.
Irritation/Corrosion	No information available.
Sensitiser	No information available.
Mutagenicity	No information available.
Chronic Toxicity	There are no known carcinogenic chemicals in this product.
Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
Teratogenicity	No information available.

Ecological Information

Ecotoxicity	No specific information available on the product.
Environmental Information	This material is considered to be non-biodegradable.
Aquatic Toxicity	Toxicity is expected to be low based on insolubility of polymer in water.

Disposal Considerations

	Recycling is encouraged. Dispose in accordance with local regulations.
--	--

Transportation Information

UN number	Not regulated as a hazardous material.
Class	Not applicable.



PSR Plastics
Components to Industry

PET

Proper shipping name	Not applicable.
Packing group	Not applicable.
Marine pollutant	Not applicable.

Regulatory Information

TSCA	All ingredients are listed.
SARA 313	This product is not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.
California Proposition 65	This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. PSR Industrial Ltd. Makes no warranty of any kind concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials.

Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.