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Chemical Production Co.Ltd

SAFETY DATA SHEET

PET RESIN

SDS / MSDS Summary covering IV 0.76, IV 0.80 and IV 0.84 grades

SECTION 1: IDENTIFICATION

Product identifier	PET Resin Chips; PET Resin Chips IV 0.76 / IV 0.80 / IV 0.84
Chemical name	Polyethylene Terephthalate (PET)
Recommended use	Industrial manufacturing
Restrictions on use	For professional use only
Manufacturer / Distributor	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
Address	ILKBAHAR MAH. FAHREDDIN PASA SK. NO: 6 CANKAYA/ANKARA
Phone number	+903125147055
Emergency phone number	+903125147055

SECTION 2: HAZARD(S) IDENTIFICATION

GHS classification	Not classified as hazardous under normal conditions of handling and use.
Signal word	**Not applicable / No signal word required.**
GHS pictograms	None required for PET resin chips in supplied solid pellet form.

- Hazard statements: Dust generated during processing may cause mechanical irritation to eyes, skin, or respiratory tract.
- Hot molten material can cause severe thermal burns.
- Combustible dust may form in grinding or high-dust processing operations.
- Label elements: No GHS label required for normal supplied pellet/chip form.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS number	Concentration	Notes
Polyethylene Terephthalate (PET)	25038-59-9	>= 99%	Polyester resin
Additives / stabilizers	Proprietary or not applicable	<= 1%	Grade dependent

SECTION 4: FIRST-AID MEASURES

Eye contact	Rinse cautiously with water. Remove particles if easy to do. Seek medical attention if irritation persists.
Skin contact	Wash with soap and water. For molten material contact, cool rapidly with water and do not remove solidified polymer from skin; seek immediate medical attention.
Inhalation	Move person to fresh air. Obtain medical attention if coughing, irritation, or breathing difficulty continues.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical advice if discomfort occurs.
Symptoms/effects	Mechanical irritation from dust; thermal burns from molten polymer;

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	delayed irritation possible after dust exposure.
Treatment	Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, foam, dry chemical powder, or carbon dioxide.
- Unsuitable media: Avoid strong direct water jets that may spread molten material.
- Specific hazards: Burning may produce carbon monoxide, carbon dioxide, aldehydes, organic acids, and irritating smoke.
- Protective equipment: Firefighters should wear self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Use appropriate PPE to avoid dust inhalation and mechanical irritation.
- Sweep or vacuum pellets/chips to prevent slip hazards. Avoid generating dust.
- Collect spilled material in suitable containers for reuse, recycling, or disposal.
- Keep material away from drains and waterways where possible.

SECTION 7: HANDLING AND STORAGE

- Handle in well-ventilated areas. Avoid dust formation and accumulation.
- Prevent contact with molten polymer. Use heat-resistant gloves and face protection during processing.
- Ground and bond equipment if dust may be generated.
- Store in a cool, dry, well-ventilated area away from heat, ignition sources, strong oxidizers, and direct sunlight.
- Keep packaging closed when not in use to avoid contamination and moisture uptake.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL	No product-specific PEL established. Treat nuisance dust under applicable particulate limits.
ACGIH TLV	No product-specific TLV established. Minimize airborne dust exposure.
Engineering controls	Use local exhaust ventilation during cutting, grinding, drying, transfer, or high-temperature processing.
Eye/face protection	Safety glasses with side shields; face shield for molten polymer operations.
Skin protection	Industrial gloves for pellets; heat-resistant gloves and protective clothing for molten material.
Respiratory protection	Use approved particulate respirator if dust exposure cannot be controlled by ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	IV 0.76	IV 0.80	IV 0.84
Appearance	Solid translucent/white chips or pellets	Solid translucent/white chips or pellets	Solid translucent/white chips or pellets
Odor	Odorless to slight	Odorless to slight	Odorless to slight
Intrinsic viscosity	0.76 dL/g	0.80 dL/g	0.84 dL/g
Typical application	Film, sheet, fiber or packaging conversion	General bottle and packaging applications	Higher strength bottle / thermoforming

			applications
Melting point	Approx. 245-260 °C	Approx. 245-260 °C	Approx. 245-260 °C
Density	Approx. 1.30-1.40 g/cm3	Approx. 1.30-1.40 g/cm3	Approx. 1.30-1.40 g/cm3
Solubility in water	Insoluble	Insoluble	Insoluble
Flash point	Not applicable for solid polymer	Not applicable for solid polymer	Not applicable for solid polymer
pH	Not applicable	Not applicable	Not applicable

SECTION 10: STABILITY AND REACTIVITY

- Reactivity: Not reactive under normal storage and handling conditions.
- Chemical stability: Stable at ambient temperature and pressure.
- Possibility of hazardous reactions: Hazardous polymerization will not occur.
- Conditions to avoid: Excessive heat, open flame, ignition sources, and dust accumulation.
- Incompatible materials: Strong oxidizing agents.
- Hazardous decomposition products: Carbon oxides, acetaldehyde, and irritating organic vapors during combustion or overheating.

SECTION 11: TOXICOLOGICAL INFORMATION

- Likely routes of exposure: Eye contact, skin contact, inhalation of dust, and incidental ingestion.
- Acute effects: Dust may cause mechanical irritation. Molten material causes thermal burns.
- Chronic effects: No chronic toxicity expected under normal handling and use.
- Carcinogenicity: PET resin is not expected to be carcinogenic in supplied solid form.
- Numerical toxicity data: LD50 / LC50 data not established for the finished polymer resin chips.

SECTION 12: ECOLOGICAL INFORMATION

- Not expected to be acutely toxic to aquatic organisms in solid pellet form.
- Product is persistent as an inert polymer and is not readily biodegradable.
- Prevent release of pellets or chips to soil, drains, waterways, and marine environments.
- No significant bioaccumulation is expected for the solid polymer.

SECTION 13: DISPOSAL CONSIDERATIONS

- Reuse or recycle where possible.
- Dispose of waste material and packaging in accordance with local, regional, national, and international regulations.
- Do not discharge pellets or chips into drains, sewers, or the environment.
- Incineration should be performed only in approved facilities with appropriate emission controls.

SECTION 14: TRANSPORT INFORMATION

UN number	Not regulated
Proper shipping name	Not regulated as dangerous goods
Transport hazard class	Not regulated
Packing group	Not applicable
Marine pollutant	No
Special precautions	Avoid package damage and pellet release during transport.

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SECTION 15: REGULATORY INFORMATION

- This SDS summary is prepared in a 16-section format aligned with OSHA Hazard Communication Standard SDS structure.
- Product is generally not classified as hazardous in supplied solid resin chip form under GHS principles.
- Users must verify final regulatory status according to destination country, application, additives, and local requirements.
- Food-contact, medical, or regulated end-use compliance must be confirmed separately for the specific grade and application.

SECTION 16: OTHER INFORMATION

Date of preparation / last revision	20 May 2026
Document type	Safety Data Sheet (SDS / MSDS) Summary
Prepared for	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
Disclaimer	Professional SDS summary based on typical PET resin properties; verify supplier-specific and local regulatory requirements before use.