


ISMAIL RESIN (PRIVATE) LIMITED		
Material Safety Data Sheet		
IRL-R-MSDS-23	Effective Date: 30-01-2024	
Version- [1.0]	Supersede: None	

Section 1: Identification

1.1 Product identification

Polyethylene terephthalate (PET) IR 76.

1.2 Product intended use

Polyethylene terephthalate used for beverages packing, film sheet making and other purpose.

1.3 Product supplier detail

Ismail Resin (Private) Limited

Head office: 17, Banglore Town, Main Sharah-e-Faisal, Karachi, Pakistan.

Tel: (+92 21) 34311172 - 76

Fax: (+92 21) 34547843, 34541094

Website: www.ismailresin.com.pk

Factory Address: Plot A-39 North West industrial zone Port Qasim Karachi

Section 2: Hazzard Identification

2.1 Emergency Over View


Polyethylene terephthalate pellets create slipping hazard. Thermal burns from molten plastic can be very painful. Polymer melt thermal processing can emit fumes that might irritate the eyes, skin, and respiratory system. Secondary operation like grinding produced the dust which is hazardous to respiratory system.

Section 3: Composition

3.1 Material

Polyethylene terephthalate having CAS number 25038-59-9

PET resins are plastic intermediate plastic materials manufactured from terephthalic acid (PTA), isophthalic acid (IPA), mono-ethylene glycol (MEG), diethylene glycol (DEG) monomers coloring agent and catalyst.

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Section 4: First Aid

4.1 Detail of First Aid Measures

Eyes contact: Mechanical injury to eyes is possible. Seek doctor's advice if necessary. **Skin**

contact: If melted resin comes in contact with skin, the affected place should be washed thoroughly with a plenty of water. Put a sterile bandage on the wound. If burns occur, seek medical advice immediately. Note: never try to take away substance melted to the wound.

Inhalation: After inhalation of vapor from melted substance: Remove person to fresh air as soon as possible. Drink water to clean the mouth and blow the nose to remove the dust. Upon evidence of breathing problems, take a person to the first aid station to provide medical aid.

Ingestion: No toxicity hazard. This substance is biologically inactive. If feel unwell, doctor's advice is recommended

Section 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Water, water/foam, CO₂, A or B class fire extinguishers, AB class fire extinguishers, powder extinguishers

5.2 Particular Risks Associated with The Chemical or Mixture

During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. Do not stay in dangerous area without personal breathing apparatus.

Large concentration of dust causes explosion risk. Polyesters can ignite if exposed to fire

5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective clothing.


Section 6: Accidental Release Measure

6.1 Procedures to Apply to Substance Spread Isolation:

Sweep small quantities of spillage and place them into appropriate container. Stepping or walking on chips or pellets may cause falling; avoid accumulation of chips or pellets on the floor or passages. Collect large pieces.

6.2 Cleaning Procedures:

Contain with shovel or sweep, use special vacuum cleaner to collect small particles/dust. Avoid producing dust clouds. Place into utilization or disposal containers.

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Section 7: Handling and storage

7.1 Conditions for Safe Storage

Product must be store in safe and covered area. Product must be protected from direct sun light, high temperature and rain.

Section 8: Exposure Controls/Personal Protection

8.1 Respiratory System Protection:

Necessary when vapor/dust is produced (vapor is produced when polymer is heated)

8.2 Eyes Protection:

Necessary when hot melted substance is handled. Wear safety eyewear with side shields and heatresistant face shields.

8.3 Hands Protection:

Necessary when hot melted substance is handled. Hot-resistant gloves shall be worn.

8.3 Skin Protection:

The concentrations and amounts of hazardous substances to be handled should be taken into consideration while choosing protective clothing to fulfil the needs of a certain work environment.


Section 9: Physical and Chemical Properties

Physical state:	solid substance under normal conditions
Color:	clear or naturally mat, depending on added color
Agent Oder:	odorless

Intrinsic viscosity	dl/g	0.64 to 0.840
Carboxylic End Group	m.mol/kg	32 ± 3
Color No L	L H	60 to 85
Color No b	L b	-1 to +2
Acetaldehyde	ppm	≤1
Melting point	°C	247±3
Moisture	%	0.4 Max
DEG content	%	≤1.5

Section 10: Stability and Reactivity

10.1 Chemical Stability

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Remain chemical stable at normal temperature

10.2 Conditions

Keep away from flames, high temperatures, and other ignition sources

When a product exits a technical process, temperatures exceeding 150 °C and/or prolonged retention times should be avoided since thermal decomposition and product degradation may begin.

Strong oxidizing agents, mineral acids, and organic solvents should all be avoided.

10.3 Hazardous Decomposition

Hazardous breakdown products are formed during the heating process, including toxic gas. The conditions of the heating process affect the gases' composition.

Section 11: Toxicological Information

11.1 Acute Intoxication:

No

11.2 Additional Toxicological Information:

The substance proved to be nontoxic during standard toxicological and eco-toxicological tests and therefore is considered to be biologically inactive.

11.3 Additional Data:

The product to be handled with carefulness pertaining to bulk substances.

Section 12: Ecological

12.1 Stability/Degradability: Very minor degradability under impact of UV light.

12.2 Eco-Toxicity:


No signs of hazardous effect on the environment.

12.3 Aquatic Toxicity:

No information is available

Section 13: Disposal Considerations

The disposal shall be carried out in accordance with approved instructions

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Preferable method of disposal is 1. recycling 2. Incineration

Section 14: Transportation Information

Transport regulations do not apply.

Section 15: Regulatory Information

Product is not classified as hazardous according with (EC) 1907/2006

Section 16: Other Information

This document's material is based on the current level of our understanding. Regarding the product's safety requirements, a description is provided. The information provided is not intended to be a warranty regarding the features of the product.