

## **MATERIAL SAFETY DATA SHEET**

### **High Impact Polystyrene - HIPS**

#### **SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

##### **1.1. PRODUCT IDENTIFIER**

Trade name: HIPS  
Generic name: HIPS (high impact polystyrene)

##### **1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Identified use: Molding/ Extrusion Application

##### **1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

Supplier: **Finetex General Trading LLC**

##### **1.4. EMERGENCY TELEPHONE NUMBER**

Emergency telephone number: +971 55 65 35 374

Email: [Info@finetex.ae](mailto:Info@finetex.ae)

#### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Composition</b>
<b>Styrene Monomer</b>	100-42-5	83.0 - 88.0 %
<b>Butadiene Rubber</b>	9003-17-2	6.0-8.0%
<b>Other Ingredients</b>	-	6.0-9.0%

Hazardous Substances: None Classified as Hazardous Material  
Adverse Human Health effects: None  
Environmental effects: None  
Physical and Chemical Hazards: None

**SECTION 3. HAZARD IDENTIFICATION**

**3.1. MOST IMPORTANT HAZARDS**

Particularly Non- harmful

**3.2. NFPA**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0= Minimal 1= Slight 2 = Moderate 3 = Serious 4 –Severe

**3.3. SKIN CONTACT**

Thermal decomposition gives vapors which could be irritating to the skin, the mucous membrane

**3.4. EYE CONTACT**

Non irritating to the eyes. Heated polymer-eye contact can cause serious thermal burns. Vapours formed when polymer is heated may be irritating to the eye

**3.4. ENVIRONMENTAL**

Do not discharge into sewers or in environment. To be disposed in accordance to local appropriate legislation

**SECTION 4. FIRST AID MEASURES**

**4.1. DESCRIPTION OF FIRST AID MEASURES**

Eye contact:	immediately rinse eyes with water. In case of irritation, contact a physician.
Skin contact:	if molten material comes into contact with the skin, cool immediately with cold water. Removal of solidified molten material from skin as well as treatment of burns require medical assistance.
Ingestion:	remove material residues from mouth and rinse mouth with water. Drink plenty of water. Do NOT induce vomiting. In case of discomfort, contact a physician.
Inhalation:	provide fresh air. In case of noticing worrying symptoms, consult a physician.

**4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

Most important symptoms/effect: no data available

**4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Notes to physician: treat symptomatically

**SECTION 5. FIREFIGHTING MEASURES**

**5.1. EXTINGUISHING MEDIA**

Suitable extinguishing media: fine spray or water mist, dry powder, foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media: high volume water jet.

**5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Special hazards arising from the substance or mixture:

special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: burning produces irritating and noxious fumes/gases, smoke, carbon monoxide, carbon dioxide, hydrocarbons.

**5.3. ADVICE FOR FIREFIGHTERS**

Special protective equipment for firefighters: self-contained breathing apparatus and full firefighting protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Use personal protective equipment. Avoid contact with eyes and skin. Do not breathe vapors. In case of failure in a confined space, ensure proper ventilation. Remove sources of ignition and extinguish open flame.

**6.2. ENVIRONMENTAL PROTECTION**

Prevent or limit further leakage if possible. Avoid discharge of the product into drain, ground and surface water.

**6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Sweep up and gather solidified material into appropriate containers for disposal. Collected material treat as waste.

**6.4. REFERENCE TO OTHER SECTIONS**

See SECTION 8 for personal protection information. See SECTION 13 for disposal considerations.

**SECTION 7. HANDLING AND STORAGE**

**7.1. PRECAUTIONS FOR SAFE HANDLING**

Handle in accordance with general safety regulations. Use personal protective equipment. Ensure proper ventilation. Avoid contact with molten material. Do not eat, drink or smoke when using the product. Do not ingest.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in tightly closed packaging in a dry and cool room away from hot surfaces and sources of ignition. Protect from moisture and direct sunlight.

**7.3. SPECIFIC END USE(S)**

See SECTION 1.2.

Exposure scenario: no data available

Other guidelines: no data available

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. CONTROL PARAMETERS**

Exposure limits: the product does not contain any hazardous substances with occupational exposure limits.



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Biological limit values:	not applicable
Recommended monitoring procedures:	not applicable
Derived No Effect Level (DNEL):	not applicable
Predicated No Effect Concentration:	not applicable

## 8.2. EXPOSURE CONTROL

Appropriate engineering controls:	store at temperatures between 20 and 30°C. Ensure proper ventilation, especially in confined spaces.
Individual protection measures, such as personal protective equipment:	
Eye protection:	wear safety glasses with side-shields.
Skin protection:	wear heat-resistant gloves when handling molten material.
Respiratory protection:	when working in spaces with high temperatures and with poor ventilation, use breathing equipment with particle filter.
Thermal hazards:	no fire hazard under normal use conditions.
Environmental exposure controls:	do not allow to enter into drains, ground and surface water.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	filament
Physical state:	solid (compressed)
Colors:	grey, natural white, black, yellow, red, green, blue
Odor:	nearly odorless
Odor threshold:	not applicable
pH:	no data available
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	no data available
Flash point:	no data available
Evaporation rate:	no data available
Flammability:	flammable in constant flame
Upper/lower flammability or explosive limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Relative density:	1,14 g/cm <sup>3</sup>
Solubility:	insoluble
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	product is not self-igniting
Decomposition temperature:	no data available

Viscosity: no data available  
Explosive properties: no data available  
Oxidizing properties: no data available

## 9.2. OTHER INFORMATION

Miscibility: immiscible  
Fat solubility: no data available  
Conductivity: no data available  
Gas group: no data available

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No reactivity under normal storage conditions.

### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None under normal storage and processing.

### 10.4. CONDITIONS TO AVOID

Sources of heat, ignition and moisture. Working in spaces with poor ventilation.

### 10.5. INCOMPATIBLE MATERIALS

Strong oxidants

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition under normal conditions. Combustion products: see SECTION 5.2.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: oral LD50 > 5000 mg / kg (rat), skin  
LD50 > 2000 mg / kg (rabbit). contact  
with skin may cause irritation.  
Skin corrosion/irritation: Serious  
eye damage/irritation: contact with eyes may cause irritation.  
Respiratory or skin sensitization: no sensitizing effects are known.  
Germ cell mutagenicity: no data available

Carcinogenicity:	IARC (International Agency for Research on Cancer) - none of the ingredients is listed. NTP (National Toxicology Program) - none of the ingredients is listed. MAK (German Maximum Workplace Concentration) - none of the ingredients is listed.
Reproductive toxicity:	no data available
STOT-single exposure:	no data available
STOT-repeated exposure:	no data available
Aspiration hazard:	no data available

**SECTION 12. ECOLOGICAL INFORMATION**

For the safety of ocean species and birds, disposal of the waste to the ocean and water courses is inhibited

**SECTION 14. TRANSPORT INFORMATION**

Not Classified

**SECTION 15. REGULATORY INFORMATION**

Not Available

**SECTION 16. OTHER INFORMATION**

None