



# SHAKUN POLYMERS LIMITED



## MATERIAL SAFETY DATA SHEET FOR POLYETHYLENE COMPOUNDS

| Section I – Product and Company Identification                       |   |
|--|---|
| <b>Manufacturer's Name:</b> M/s. Shakun Polymers Limited             | <b>Emergency Tel. No.:</b> 91-265-2335537 |
| <b>Address:</b> 501, Ivory Terrace, R.C. Dutt Road, Baroda – 390 007 |   |
| <b>Product Name :</b> POLYETHYLENE COMPOUNDS                         | Reference : SPL-                          |

| Section II – Composition / Information on ingredients |                                    |
|---|------------------------------------|
| <b>Chemical Family:</b> POLYMERS                      | <b>Formula:</b> $-(CH_2 - CH_2)_n$ |
| Ethylene based polymer                                |                                    |

| Section III – Hazardous Identification                   |     |             |  |     |             |
|--|-----|-------------|--|-----|-------------|
| Paints Preservative & Solvents                           | %   | TLV (Units) | Alloys & Metallic Coatings             | %   | TLV (Units) |
| Pigments   | NIL | NA          | Base metal                             | NIL | NA          |
| Catalyst   | NIL | NA          | Alloys                                 | NIL | NA          |
| Volatile   | NIL | NA          | Metallic coatings                      | NIL | NA          |
| Solvents   | NIL | NA          | Filter Metal plus coating or core flux | NIL | NA          |
| Additives (Antioxidants & other Chemicals)               | < 2 | NA          | Others                                 | NIL | NA          |
| Others   | NIL | NA          |  |     |             |
| Hazardous Mixtures of Other Liquids, Solids or Gases     |     |             |  | %   | TLV (Units) |
| <b>SHAKUN POLYOLEFIN RESINS ARE NOT CONSIDERED TO BE</b> |     |             |  | NIL | NA          |
| <b>HAZARDOUS UNDER NORMAL PROCESSING CONDITIONS</b>      |     |             |  |     |             |

| Section IV – First Aid Measures   |
|---|
| <p>IN CASE OF CONTACT , flush the area with plenty of water . Remove material from clothing , wash clothing before use.</p> <p>IF SWALLOWED, induce vomiting as directed by medical personnel . Get medical attention . NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.</p> <p>IF INHALED remove to fresh air.</p> |

| Section V – Fire Fighting Measures |   |                  |    |     |    |     |    |
|------------------------------------|---|------------------|----|-----|----|-----|----|
| Flash Point (Method used)          | NA  | Flammable limits | NA | LEL | NA | UEL | NA |
| Extinguishing Media                | WATER, DRY CHEMICAL, CO <sub>2</sub> FOAM   |                  |    |     |    |     |    |
| Special Fire Fighting Procedures   | SHAKUN RESINS ARE COMBUSTIBLE MATERIALS – MOLTEN POLYETHYLENE TENDS TO FLOW OR DRIP AND WILL PROPAGATE FIRE |                  |    |     |    |     |    |

|                                    |  |
|------------------------------------|--|
| Unusual Fire and Explosion Hazards | FAILURE OR MALFUNCTION OF TEMPERATURE CONTROL SYSTEM ON PROCESSING EQUIPMENT SUCH AS EXTRUDERS MAY CREATE EXPLOSION HAZARD |
|------------------------------------|--|

| <b>Section VI – Accidental Release Measure</b>   |  |
|--|--|
| Steps to be taken in case material is released or spilled during shipping or storage           |  |
| PELLETS MAY CREATE A SLIPPING HAZARD AND SHOULD BE REMOVED FROM WALKWAYS BY SWEEPING PROPERLY. |  |
| Waste disposal method  |  |
| LANDFILL OR INCINERATION AS PER LOCAL LAWS   |  |

| <b>Section VII – Handling &amp; Storage</b>  |  |
|--|--|
| Handling : Keep the Boxes closed in a cool , dry and well ventilated place. Provide appropriate exhaust ventilation at machinery or where dust is formed . |  |
| Storage : Store under dry conditions . Observe Norms standards of industrial hygiene when handling.  |  |

| <b>Section VIII – Exposure Controls / Personal Protection</b> |   |   |                                    |
|---|---|---|------------------------------------|
| Respiratory Protection (specify type)                         | NONE  |   |                                    |
| Ventilation   | Local Exhaust   | RECOMMENDED FOR HIGH TEMPERATURE PROCESSING * | Special --                         |
|   | Mechanical (General)  | --  | Other --                           |
| Protective Gloves   | USE GLOVES WHEN HANDLING HOT MELT   | Eye Protection                                | USE GOGGLES WHEN HANDLING HOT MELT |
| Other Protective Equipment                                    | LONG SLEEVE SHIRTS & LONG COTTON PANTS TO PROTECT SKIN CONTACT WITH HOT MELT. |   |                                    |

| <b>Section IX – Physical &amp; Chemical Properties</b> |  |                                       |        |
|--|--|---------------------------------------|--------|
| Boiling Point (°C)                                     | NA   | Specific Gravity (H <sub>2</sub> O=1) | < 0.93 |
| Vapour Pressure (mm Hg)                                | NA   | Percent Volatile                      | < 0.5  |
| Vapour Density (Atr=1)                                 | NA   | Evaporation Rate                      | NA     |
| Solubility in Water                                    | INSOLUBLE                                      |                                       |        |
| Appearance and odour                                   | NATURAL PELLETS, HAVING MILD HYDROCARBON ODOUR |                                       |        |

| <b>Section X – Stability &amp; Reactivity</b> |   |    |                     |
|---|---|----|---------------------|
| Stability                                     | Unstable  | -  | Condition to avoid  |
|   | Stable  | ✓  | HEATING ABOVE 250°c |
| Incompatibility (materials to avoid)          | STRONG OXIDANTS AT HIGH TEMPERATURE                 |    |                     |
| Hazardous decomposition products              | CO, CO <sub>2</sub> , HYDROCARBONS, SMOKE, ACROLEIN |    |                     |
| Hazardous Polymerization                      | May Occur   | -- | Conditions to avoid |
|   | Will not occur                                      | ✓  | NA                  |

| <b>Section XI – Toxicological information</b> |                                  |
|---|----------------------------------|
| Toxicity Ingested, Inhaled or on Skin         | SHAKUM POLYETHYLENE IS NOT TOXIC |
| Irritation to Eyes                            | NOT APPLICABLE                   |
| Irritation on Skin                            | NOT APPLICABLE                   |
| Emergency and First Aid Procedure             | NOT CONSIDERED A HAZARD          |

| <b>Section XII – Ecological information</b> |                   |
|---|-------------------|
| Ecotoxicological information                | No data available |
| Chemical Fate Information                   | No data available |

| <b>Section XIII – Disposal Consideration</b>  |  |
|---|--|
| Recover, reclaim or recycle when practical. Disposed of in an approved landfill if allowed locally. Comply with federal, state and local regulations. Dispose of in a permitted waste management facility if landfill is not practical. |  |

| <b>Section XIV – Transport Information</b> |  |
|--|--|
| No special precautions required            |  |

| <b>Section XV – Regulatory Information</b> |  |
|--|--|
| Not classified                             |  |

| <b>Section XVI – Other Information</b> |  |
|--|--|
| NONE                                   |  |

\* Polyethylene degradation products generated during processing may include CO<sub>2</sub>, CO, Hydrocarbons and possibly trace amounts of acrolein.