

MATERIAL SAFETY DATA SHEET

1. Production & Company Identification

Product Description: Polyethylene Terephthalate

Trade Name: RF-60, RF-50, RF-40, RF-10, RF-05

Application: Industrial resin, Films Coating

Manufacturer: FEWM CO., LTD.

Address: RM#408, 6, Heungdeok 2-ro, 105beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, KOREA

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2. Hazards Identification

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Physical hazard: N/A

Health hazard: N/A

Environment hazard: N/A

Label elements including precautionary statements

Symbol: N/A

Signal word: N/A

Hazard statements: N/A

Precautionary statements: N/A

3. Identification of the Substance

| Ingredient | Substance Name | Molecular Formula | CAS No. | Percent (%) |
|------------|----------------------------|-------------------|------------|-------------|
| | Polyethylene Terephthalate | N/W | 25038-59-9 | 100 |

4. First Aid Measures

- **General notes:** Take affected persons out of danger area and lay down.

- **If inhaled:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

- **In case of skin contact:** Molten material can cause thermal burns. DO NOT attempt to remove molten polymer from the skin. Rapidly cooled with cold water. Carefully remove clothes.
- **In case of contact with eyes:** Remove particles by irrigating with clean water for at least 20 minutes
- **If swallowed:** Never give anything by mouth and unconscious person. Get medical aid immediately.

5. Fire Fighting Measures

- **Flammable class:** Not determined
- **Suitable extinguishing media:** CO₂, Powder or water spray, Foam-Fog, Larger fires with water spray
- **Hazards arising from exposure to the substance, its combustion products and gases:** Formation of toxic gases is possible (CO, CO₂) during heating or in case of fire.
- **Protective equipment for fire-fighters:** Wear self contained respiratory protective device
- **Additional Information:** Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately.
It must not enter the sewage system

6. Accidental Release Measure

- **Personal precautions :**Keep away from ignition sources.
Wear protective equipments. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
- The interior of molten masses may remain hot for some time because of the low heat conductivity of the polymer. Use care when disposing of molten masses.
- **Environmentnal precautions:** Do not allow product to reach sewage system or any water course.
 - **Methods and materials for containment and cleaning up:** Clean up by vacuuming or wet sweeping to minimize dust exposure and Sweep up and recover, or mix material with moist absorbent and shovel into suitable chemical waste container.
Contaminated area must be isolate.
Dispose of the material collected according to regulations.

7. Handling and Storage

- Precautions for safe handling

Any unavoidable deposit of dust must be regularly removed.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Do not breathe vapors or fumes that may be evolved during processing.

Material can be handled hot/molten, Contact can cause burns. Avoid contact with molten material.

- Storage

Store at room temperature in dry.

Store only in the original receptacle.

Do not store together with oxidizing and acidic materials.

8. Exposure Controls and Personal Protection

- Components with specific control parameters

KOSHA: N/A

US ACGIH: N/A

- Personal protective equipment

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

Hand protection: Protective gloves are required when handling hot polymer.

Eye protection: For operations where eye or face control can occur, eye protection such as goggles or a face shield is recommended.

Skin and body protection: Long sleeve cotton shirt and long pants if handling molten polymer.

9. Physical and Chemical Properties

- Appearance: Granular (Powder)

- Form or state : Solid (powder)

- Colour: White

- Odor: Odorless

- pH: Not Applicable

- Boiling point/range: N/A

- Flammability: N/A

- Flash point: 440°C (Method: ASTM 09129-68)

- Melting point: 245~260°C

- Specific gravity: 1.33~1.45

- Auto-ignition temperature: 500°C

- Lower/Upper explosion limit: N/A

- Solubility: Insoluble in water, fats

- Viscosity: N/A

- Evaporation rate: N/A

10. Stability and Reactivity

- **Thermal decomposition:** Stable under normal conditions of use.
- **Decomposition temperature:** > 340°C
- **Hazardous Decomposition Products:** Acetaldehyde, CO, CO₂
- **Conditions to Avoid:** Strong alkalis, Strong oxidizing agents.

11. Toxicological Information

- **Acute toxicity:** N/A
- **Skin corrosion/irritation:**N/A
- **Serious eye damage/eye irritation:**N/A
- **Respiratory or skin sensitization:**N/A
- **Germ cell mutagenicity:**N/A
- **Carcinogenicity:**N/A
- **Reproductive toxicity:**N/A
- **Specific target organ toxicity - single exposure (GHS):**N/A
- **Specific target organ toxicity - repeated exposure (GHS):**N/A
- **Aspiration hazard:**N/A

12. Ecological Information

- **Persistence / degradability:**Product persistent low biodegradability.
- **Bioaccumulative potential:** N/A
- **Mobility in soil:**N/A
- **Aquatic toxicity:**N/A
- **Observation:**N/A

13. Disposal Considerations

- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packaging recommendation:** Disposal must be made according to official regulations..

14. Transport Information

UN NO.: Not Classified

ADR/RID Class: Not Classified

Marine Polltant: Not Classified

IMDG Class: Not Classified

Air Transport: Not Classified

15. Regulatory Information

- Hazardous label(s): N/A
- Korea Industrial Safety and Health Act: N/A
- Korea Hazardous Materials Safety Control Act: N/A
- Korea Toxic Chemicals Control Act: N/A
- Safty phrases: N/A
- Risk phrases: N/A

16. Other Information

This information is based on the current state of our knowledge and relates to the product in the form provided.

This paper aims to describe the product from the point of view of safety requirements and do not guarantee particular properties or particular technical characteristics.

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