

Heat Friendly (Heat Resistant) Synthetic Hair Safety Data Sheet

Department: CSR/Quality Assurance Office, High Performance Fibers Business Unit

Date Completed: October, 02, 2013

Section 1. PRODUCT IDENTIFICATION

Chemical Name: Polyethylene terephthalate **Product Name :** Futura

Section 2. HAZARDS IDENTIFICATION

No special hazards. *Note: To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.*

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Weight%</u>
Polyethylene terephthalate	≥75% Titanium dioxide
<i>Material obtained from the spinning of the above polymer with finishing oil on the surface ,antimony compound etc. as flame retardant and other performance additives within the polymer matrix.</i>	

Section 4. FIRST-AID MEASURES

Eye contact: Flash eyes with plenty of clean water. If symptoms persist, get medical attention

Skin contact: Wash affected skin with water. If irritation develops, get medical attention.

Inhalation: Blow nose and rinse out mouth, *if* symptomatic move to fresh air. Get medical attention, if symptoms persist.

Ingestion: If a considerable quantity has been swallowed, get medical attention. Material is not expected to be absorbed from the gastrointestinal tract.

Section 5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing

Hazardous Combustion Products carbon dioxide (CO₂), carbon monoxide (CO)

Section 6. ACCIDENTAL RELEASE MEASURES

Sweep or scoop up and remove.

Section 7. HANDLING AND STORAGE

Handling : Handle in accordance with good industrial hygiene and safety practices. If concerned, wear safety goggles, gloves and a dust respirator.

Storage: Stable under normal conditions of handling and storage. Store in a cool place and protect from direct sunlight. Keep away from heat, sparks and flames.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

ACGIH (TLV): Not established

Ventilation: Good general ventilation should be used. Provide natural or mechanical ventilation to minimize exposure.

Respiratory: Avoid breathing dust: Use approved respiratory protection equipment when airborne exposure is excessive.

Eye Protection: Does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Skin Protection: Although this material does not present a significant skin concern, if needed or concerned, wear a glove.

OSHA (PEL): Not established

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: fiber

Color & Odor: various, free of odor

Warning statements: No significant hazards associated with this material

Specific Gravity: 1.30-1.45

Boiling Point: not applicable

Vapor Pressure: not applicable

Vapor Density: not applicable

Evaporation Rate: not applicable

Melting Point: 473-491°F or 245~255°C

Solubility in Water: insoluble

Solubility in other solvent : hexafluoroisopropanol

Flash Point: more than 300°C, combustible

Lower Explosive Limit: not applicable

Upper Explosive Limit: not applicable

Autoignition Temperature: not applicable

Section 10. STABILITY AND REACTIVITY

Stability: stable

Conditions to avoid: This material is stable in normal conditions of temperature and pressure.

Incompatibility: Material can react with strong oxidizing agents

Hazardous Decomposition: will occur oxides of carbon on burning This material decomposes at about 330°C. For decomposition products: In case of combustion, see section 5.

Hazardous Polymerization: will not occur

Section 11. TOXICOLOGICAL INFORMATION

The manufacturer of this product, Kaneka, has not conducted toxicity studies on this material and no toxicological information was obtained in a reasonably extensive search of the available scientific literature.

Acute Toxicity: not known

Skin Irritation: not known

Eye Irritation: not applicable

Sensitizing: not known

Chronic Toxicity: not known

Mutagenicity: not known

Carcinogenicity: IARC Not listed, ACGIH; Not listed, NTP: Not listed

Section 12. ECOLOGICAL INFORMATION

Biodegradability: not readily degradable

Bioaccumulation: not accumulable

Ecotoxicity: not known

Section 13. DISPOSAL CONSIDERATION

Incineration or landfill in accordance with applicable regulation. Comply with local regulations regarding waste. This material should not be dumped, spilled into sewers or public waterways.

Section 14. TRANSPORT INFORMATION

Not dangerous by any mode of international transport.

Section 15. REGULATORY INFORMATION

None. This material is not classified as dangerous goods as regards Directive 92/32/EEC dated 30/4/1992. Please refer to any other national measures that may be relevant.

Section 16. OTHER INFORMATION

This information is furnished without warranty, express or implied, expect that it is accurate to the best knowledge of Encelia Hair. It relates only to the specific material designed herein, and does not in combination with any other material or in any process. Encelia Hair assumes no legal responsibility for use of or reliance upon this information.