



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tansome Carbon Fiber

Product Type:
 H2550-6K H2550-12K H2550-24K H3055-12K

Manufacturer's Name: Hyosung Corporation

Manufacturer's Address: 119, Mapo-daero, Mapo-gu, Seoul, Korea 121-720

Telephone Number: +82-2-707-7000

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Concentration</u>	<u>CAS Number</u>
Carbon Fiber (Polyacrylonitrile based)	98 ~ 99.5 %	7440-44-0
Epoxy (Sizing agent)	0.5 ~ 2.0 %	

3. HAZARDS IDENTIFICATION

- 3.1 Primary Route of Exposure
 - 3.1.1 Skin Contact Fiber dust may cause irritation, itchiness or sometimes allergic dermatitis.
 - 3.1.2 Eye Contact Fiber or Fiber Dust may cause irritation or injury from scratching.
 - 3.1.3 Inhalation Dust may cause irritation.
 - 3.1.4 Ingestion Unknown
- 3.2 Chronic Toxicity/Carcinogenicity Not Listed
- 3.3 Medical Conditions Aggravated by Exposure Not Applicable

4. FIRST AID MEASURES

- 4.1 Skin Wash with water and if irritation persists or allergic reaction occurs, consult a medical physician.
- 4.2 Eye Wash with plenty of clean water and, if irritation persists, consult a medical physician.
- 4.3 Inhalation Evacuate from the dusty contaminated area and walk outside to get fresh air.
- 4.4 Ingestion Consult a medical physician.
- 4.5 Notes to Physician Fiber is inert, but it is so sharp and strong that it may cause physical injury.



5. FIRE-FIGHTING MEASURES

- 5.1 Flammable Properties
 - 5.1.1 Flash Point Not Applicable
 - 5.1.2 Flammable Limits
 - LFL (Lower Flush Limit) Not Applicable
 - UFL (Upper Flush Limit) Not Applicable
- 5.2 Firefighting Instruction Not Applicable

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Aquatic Toxicity Unknown
- 6.2 Steps to be Taken if Material is Released or Spilled
 - Vacuum up and place in a waste disposal container to an approved landfill.
- 6.3 Neutralizing Chemicals Not Applicable

7. HANDLING AND STORAGE

- 7.1 Precautions to be Taken in Handling & Storing
 - Airborne fiber dust and broken filaments should be controlled as to minimize (1) Skin irritation, (2) Electrical malfunction to machinery, electronics, etc. due to fiber conductivity. Maintain good housekeeping to control dust accumulations.
- 7.2 Other Precautions
 - Isolate all electrical equipment in surrounding areas where fiber is handled or used. Any contact between airborne particles and filaments may cause electrical shorts on any electrical equipment.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- 8.1 Ventilation Requirements
 - Local exhaust for fiber dust only
- 8.2 Personal Protective Equipments
 - Eye/Face Protection Safety Goggles and Dust Mask
 - Skin Protection Protective clothing (Rubber Gloves) which can cover full body
 - Respiratory Protection Dust Masks

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Filament	Odor	Odorless
Density (g/cm³)	About 1.8	Color	Black
Boiling Point	N/A	Vapor Pressure	N/A
Melting Point	N/A	Solubility (%)	
Vapor Density	N/A	in water	Insoluble
Volatility	N/A	in others	N/A



10. PHYSICAL HAZARDS (STABILITY & REACTIVITY)

Chemical Stability	Stable
Conditions to Avoid	Strong oxidizing agents
Incompatibilities	None
Hazardous Polymerization	Will not occur
Hazardous Decomposition Product	None

11. TOXICOLOGICAL INFORMATION

Irritation	Combustion gas irritates eye and skin
Toxicity	Unknown

12. ECOLOGICAL INFORMATION

Biodegradability	Not biodegradable
Bioaccumulation	Unknown
Aqua Toxicity	Unknown

13. DISPOSAL CONSIDERATION

Waste Disposal Method	Dispose fiber in accordance with applicable governmental non-hazardous solid waste regulations.
-----------------------	---

14. TRANSPORT INFORMATION

NOTE : Avoid water and careless handling to prevent damage to the container

15. REGULATORY INFORMATION

This product is not classified as a toxic chemical or hazardous material. No special warning label is required.

TSCA (US) NO	CARBON FIBER 7440-44-0
EINECS NO	N/A
WHMIS (Canada)	N/A
CAS	7440-44-0
OSHA	N/A
SARA TITLE III Sec.313 Toxic Chemicals	None

16. OTHER INFORMATION

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