HYOSUNG 450, Gongdeok-Dong, Mapo-Gu, Seoul, Korea 121-720
Tel :02-707-7000 Fax: 02-707-7799
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TANSOME CARBON FIBER

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

Component	Concentration	CAS Number
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.

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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/cm^3)	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

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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

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