MATERIAL SAFETY DATA SHEET

HANIL SYNTHETIC FIBER

Date Issued : JUL. 2018 / Doc. No : CF-32 / Revision No : 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Carbon Polyester Filament
Synonyms : Polyester Filament
Manufacturer : [redacted]
Telephone : [redacted]
Fax : [redacted]

2. COMPOSITION / INFORMATION ON INGREDIENTS

Properties of Material :	Mixture
Chemical name :	Polyester
Content :	Omitted
Structural Formula :	Omitted
CAS No. :	None assigned
United Nations Classification :	Not applicable
United Nations No. :	Not applicable

3. HAZARD IDENTIFICATION

No particular hazard was found in the material, but a dangerous or irritant gas may be generated when the substance material is burned.

HMIS :
- HEALTH : 1
- FLAMMABILITY : 1
- PHYSICAL HAZARD : 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

4. FIRST AID MEASURES

Eye Contact : Do not rub or scratch eyes. Fibers in the eye may cause the eye to be scratched, and may get imbedded. Flush eyes with large amounts of running water for 10-15 minutes, as necessary. Seek medical attention if symptoms develop.

Skin : If thermal burn, cool with water and seek immediate medical attention; do not attempt to peel fibers from skin.
Non-thermal contact with fibers may cause mechanical irritation of the skin.
Wash off with soap and water, and consult a physician if symptoms develop.

Absorption : Not applicable.

Inhalation : Move person to fresh air. Drink water to clear throat and blow nose to clear area.
Consult a physician if symptoms develop.

Ingestion : Wash the mouth well with water. If possible, cause vomitting.
Consult a physician if symptoms develop.

Contaminated clothing does not need to be removed.
Personal protective equipment is not required for first-aid responders.

5. Fire Fighting Measures

Flash Point :	No data available.
Flammable Limits :	Not determined.
Extinguishing Media :	Water, CO2, dry chemicals, foam.
Unusual Fire & Explosion Hazards :	A dangerous gas may be generated when the fiber is burned.
Hazardous Combustion Products :	May include, but are not limited to, CO and CO2, sulfur oxide, nitrogen oxide, and cyanogens.
Special Fire Fighting Procedures :	Avoid excessive inhalation of smoke or potential thermal decomposition products. Keep product cool by spraying with water. If outdoors, fight fire from an upwind position.
Special Protective Equipment :	Due to potential decomposition of the polymer, firefighters should be equipped with positive pressure self-contained breathing apparatus(SCBA) and standard protective fire fighting clothing (helmet, eye protection, overalls, boots, and gloves) when fighting all indoor fires and any significant outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions :	None needed.
Environmental Precautions :	None needed.
Methods for Cleanup :	Vacuum or sweep up and place in a standard disposal container.

7. HANDLING / STORAGE

Precautions for Safe Handling :	No special handling has been shown to be necessary.
Conditions for Safe Storage :	Avoid overstocking to prevent collapse or breakage of the package. Store in a cool, dry place. Do not store near flame, electric power sources, or high-temperature materials, or in a humid environment.
Other Precautions :	Do not irrradiate with microwaves. The product is conductive. Avoid using electric power sources or sparks around the fiber.

8. EXPOSURE CONTROL / PROTECTIVE EQUIPMENT

Engineering Controls : Local exhaust ventilation recommended to reduce exposure to fiber dust in operations involving cutting and use of power tools.

Exposure Guidelines : Fiber dust should be considered a nuisance dust, i.e. particulates (not otherwise classified) :

ACGIH Threshold Limit Value : 5mg/m^3 total dust; 3-mg/m^3 respirable dust.

OSHA Permissible Exposure Limit : 15mg/m^3 total dust; 5-mg/m^3 respirable dust.

Personal Protective Equipments :

Respiratory :	Typically not necessary under normal conditions of use. A respirator approved for nuisance dusts may be required/used.
Eye :	For operations where eye contact can occur, eye protection such as goggles or safety glasses is recommended.
Hand :	For operations where hand contact can occur, wash thoroughly after handling and before eating, drinking or smoking.
Skin/Other :	Typically not necessary under normal conditions of use. A loose fitting long sleeved shirt that cover to the base of the neck, long pants are recommended.
Work Practices :	Maintain good housekeeping to control dust accumulations. Avoid the use of air jets to blow off equipments; use vacuums instead.

9. PHYSICAL / CHEMICAL PROPERTIES

Chemical Formula :	Proprietary	Vapor Pressure :	Does not apply
Appearance :	Melange, Textured Yarn	Vapor Density :	Does not apply
Odor :	No odor	Specific Gravity :	1.38
pH :	No data available	Solubility :	Not dissolved by water
Melting Point :	Does not melt	Partition Coefficient :	No data available
Boiling Point :	Does not apply	Decomposition Temp :	No data available
Flash Point :	No data available	Viscosity :	Does not apply
Evaporation Rate:	Does not apply	Conductivity :	Approximately $10^6\Omega$/cm

10. STABILITY / REACTIVITY

Reactivity :	Data not available.
Stability :	Stable under normal conditions.
Hazardous Polymerization :	Will not occur.
Conditions to Avoid :	Avoid contact with electrical power sources and strong oxidizing agent.
Incompatible Materials :	Tends to decompose in strong acids and bases.

11. TOXICOLOGICAL INFORMATION

Health Hazards (Acute and Chronic) : No data available.

Carcinogenicity :

- NTP (National Toxicology Program) : Not listed.
- IARC (International Agency for Research on Cancer) : 3 - Not classifiable as to its carcinogenicity to humans.
- Proposition 65 (Chemicals known to cause cancer) : Not listed.

Signs and Symptoms of Exposure : No data available.

12. ECOLOGICAL INFORMATION

Product Ecological Information :	No information available for this product.
Ingredient Ecological Information :	None reported.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method :	Dispose of in accordance with all applicable local, federal, governmental laws and regulations.

14. TRANSPORT INFORMATION

Proper Shipping Name :	Carbon Polyester Filament
Hazard Class of Division :	Not regulated
D.O.T. :	Not regulated
ICAO/IATA :	Not regulated
IMDG :	Not regulated
Cautions on transportation :	Handle it as a heavy carriage load. The article of "cautions in handling and storage" applies.

15. REGULATORY INFORMATION

SARA Title III Rules : - Section 355 (Extremely hazardous substances) :
Not listed.
- Section 313 (Specific toxic chemical listings) :
Not listed.

TSCA (Toxic Substances Control Act) :
Not listed.

Industrial Safety and Health Act : Not regulated as an hazardous chemical.

Hazardous Chemicals Control Act : Not regulated as an hazardous chemical.

16. OTHER INFORMATION

The contents have been prepared based on the material or present data, so they may be revised based on new information, when such becomes available.

DISCLAIMER :

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.