SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Name: Galvorn® Fiber or Film

1.2. Intended Use of the Product

Recommended use: Article. To be used in electronic wiring, textile, composite, medical, and structural reinforcement applications

1.3. Name, Address, and Telephone of the Responsible Party

Company

DexMat, Inc
2429 Bissonnet St.
Houston, TX
77005 603-275-1998
www.dexmat.com

E-mail address: info@dexmat.com

SDS Version: 1.0 **Last Revision**: March 17, 2026

1.4. Emergency Telephone Number

Emergency Number: CHEMTREC: 800-424-9300 (USA) or (703) 527-3887 (worldwide)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200):

This product as produced is an “article” as defined by 29 CFR 1910.1200(c) (i – iii) and therefore is not subject to regulation under the OSHA Hazard Communication Standard per 29 CFR 1910.1200(b)(6)(v). The hazards described in this SDS pertain to dust that may be created in processing and handling by downstream users.

Not a hazardous substance or mixture.

2.2. Label Elements

GHS-US Labelling:

Not a GHS hazardous substance or mixture.

US OSHA per 1910.1200, appendix C.4.31:

Pictogram: Not required

Signal word: Warning

Hazard statement: May form combustible or respirable dust concentrations in air

Precautionary statement: Not required

2.3. Other Hazards

The hazards of this product are mainly associated with its processing.

If small particles (dust) are generated during further processing, handling, or by other means, they may form a respirable hazard or a combustible dust hazard.

2.4. Unknown Acute Toxicity (GHS-US)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixture/Article:

Article

3.2. Components

Name	Product Identifier	Concentration
Fullerenes, tubular	(CAS No) 308068-56-6	> 90%
Adsorbed water	(CAS No) 7732-18-5	< 10%

This product also contains trace amounts of impurities, each representing less than 1% of the mass of the article. These include aqueous electrolytes, metallic particles, and metal salts.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Treat symptomatically. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

First-aid Measures Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

First-aid Measures After Skin Contact: Wash with water and soap as a precaution.

First-aid Measures After Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. If eye irritation persists, consult a specialist.

First-aid Measures After Ingestion: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: None known.

Protection of first-aiders: No special precautions are necessary for first aid responders. No action shall be taken involving any personal risk or without suitable training.

Notes to physician: Treat symptomatically.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical.
Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Exercise caution when using a high-volume water jet as it may scatter and spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive. Avoid creating dusty conditions and confinement of dust, which may create a combustible dust hazard.

Reactivity: No dangerous reaction known under conditions of normal use.

Hazardous combustion products: Carbon oxides (CO, CO_2).

5.3. Advice for Firefighters

Precautionary Measures Fire: Loose fiber may scatter or become airborne under strong water or air flow

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Wear self-contained breathing apparatus for firefighting if necessary. Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: No action shall be taken involving any personal risk or without suitable training.
Ash from burning or high temperature oxidation may contain trace amounts of metal oxides and salts.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid dust formation. Refer to protective measures listed in sections 7 and 8.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE). Refer to protective measures listed in sections 7 and 8.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. If loose fibers or fiber dust may be present, a face mask with approved filter may be needed. Refer to section 8.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

No special environmental precautions required.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Avoid creating dusty conditions and prevent wind dispersal.

Methods for Cleaning Up: Sweep up and shovel. Keep in suitable, closed containers for disposal. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Provide appropriate exhaust ventilation at places where dust is formed. Dust may be formed from abrasion, breaking, or cutting of the material.
Heating to temperatures between 100 °C and 400 °C may release trace elements in the form of volatile gasses. These volatiles may include trace amounts of oxidizing or corrosive materials.
Submersion in water or other solvents may release trace amounts of electrolytes.

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Hygiene Measures: General industrial hygiene practice. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: No special storage conditions required. Keep in properly labelled containers. Keep container closed when not in use.

Incompatible Products: For incompatible materials please refer to Section 10 of this SDS.

Further information on storage stability: Stable under normal conditions.

7.3. Specific End Use(s)

Article. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Exposure limit values: If respirable dust is formed, please refer to the Recommended Exposure Limit (REL) for carbon nanotubes, published by NIOSH, which is 1 $\mu g/m^3$, 8 hr TWA as respirable elemental carbon.

8.2. Exposure Controls

Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas and near processing machinery. Recirculated air should be filtered to remove respirable dust. Ensure all national/local regulations are observed.
Personal Protective Equipment:	Refer to applicable sections below.
Hand Protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn when handling chemical products if a risk assessment indicates this is necessary.
Eye Protection:	Wear a face shield or other full-face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and Body Protection:	Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Respiratory Protection:	In the case of dust or aerosol formation above the REL use a respirator with an approved filter (full face mask with High Efficiency Particulate Air / HEPA filter).
Other Information:	General industrial hygiene practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Solid
Appearance	Tape, sheets, fibers, woven fabrics
Color	Black
Odor	Odorless
Odor Threshold	No data is available on the product itself.
pH	No data is available on the product itself.
Evaporation Rate	No data is available on the product itself.
Melting Point / Freezing Point	No data is available on the product itself.
Boiling Point	No data is available on the product itself.
Flash Point	No data is available on the product itself.
Auto-ignition Temperature	No data is available on the product itself.
Decomposition Temperature	> 842 °F / > 450 °C
Flammability (solid, gas)	Flame-resistant, but will burn at high temperatures
Flammability (liquids)	No data is available on the product itself.
Upper Explosion Limit / Upper Flammability Limit	No data is available on the product itself.
Lower Explosion Limit / Lower Flammability Limit	No data is available on the product itself.
Vapor Pressure	No data is available on the product itself.

Relative Vapor Density at 20°C	No data is available on the product itself.
Relative Density	No data is available on the product itself.
Density	0.5 g/cm^3 – 1.9 g/cm^3
Solubility	Water: Insoluble
Solubility in other solvents	Soluble in very strong acids
Partition Coefficient: N-Octanol/Water	No data is available on the product itself.
Viscosity	No data is available on the product itself.
Self-Accelerating Decomposition Temperature (SADT)	No data is available on the product itself.
Explosive properties	No data is available on the product itself.
Oxidizing properties	No data is available on the product itself.
Particle size	No data is available on the product itself.

9.2. Other Information No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No dangerous reaction known under conditions of normal use.

10.2. Chemical Stability: Stable under normal conditions.

10.3. Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use. Dust may form explosive mixture in air.

10.4. Conditions to Avoid: None known.

10.5. Incompatible Materials: None known.

10.6. Hazardous Decomposition Products: No decomposition if stored and applied as directed. Carbon monoxide (CO), carbon dioxide (CO_2) will be released if the product is burned or oxidized at temperatures above the decomposition temperature given in Section 9.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity:	No data available.
Skin Corrosion/Irritation:	Tested as non-irritating to skin on an In Vitro Skin Irritation Assay (EpiDerm™ SIT).
Serious Eye Damage/Irritation:	No data available.
Respiratory or Skin Sensitization:	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity (IARC):	No component of this product present at levels ≥ 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
Carcinogenicity (OSHA):	No component of this product present at levels ≥ 0.1% is on OSHA's list of regulated carcinogens.

Carcinogenicity (NTP):	No component of this product present at levels ≥ 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive Toxicity:	No data available.
Specific Target Organ Toxicity (Single Exposure):	No data available.
Specific Target Organ Toxicity (Repeated Exposure):	No data available.
Repeated dose toxicity:	No data available.
Aspiration Hazard:	No data available.
Experience with human exposure:	No data available.
Toxicology, Metabolism, Distribution:	No data available.
Neurological effects:	No data available.
Symptoms/Injuries After Inhalation:	None known under normal conditions of use.
Symptoms/Injuries After Skin Contact:	None known under normal conditions of use.
Symptoms/Injuries After Eye Contact:	None known under normal conditions of use.
Symptoms/Injuries After Ingestion:	None known under normal conditions of use.
Chronic Symptoms:	None expected under normal conditions of use.
Further information:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity (Ecotoxicity)

Ecology - General: No data available.

12.2. Persistence and Degradability

Carbon Nanotube Fiber or Film – Persistence and Degradability: No data available.

12.3. Bioaccumulative Potential

Carbon Nanotube Fiber or Film – Bioaccumulative Potential: No data available.

12.4. Mobility in Soil No additional information available.

12.5. Other Adverse Effects

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. Remarks: This product neither contains, nor was manufactured with, a Class I or Class II

ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations / Waste from residues: Dispose of contents and container in accordance with all local, regional, national and international regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Release to water of any dust must be strictly controlled in accordance with a Significant New Use Rule, as specified by 40 CFR 721.90(a)(1),(b)(1), and(c)(1).

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

International Regulations

14.1. In Accordance with DOT (49 CFR)

Not regulated as dangerous goods.

14.2. In Accordance with IMDG (IMDG-Code)

Not regulated as dangerous goods.

14.3. In Accordance with IATA (IATA-DGR)

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user: Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

Carbon Nanotube Fiber or Film – SARA Section 311/312 Hazard Classes: No SARA Hazards

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP) ≥0.1%, as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

TSCA: This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from the TSCA Inventory.

TSCA - 5(a) Significant New Use Rule: This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from TSCA 5(a) requirements.

US TSCA Section 12(b) Export Notification: This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from TSCA 12(b) requirements.

15.2 US State Regulations

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical Inventories:

The components of this product are reported in the following inventories:

DSL (Canada):	Exemptions from the obligation to register
AIIC (Australia):	Exemptions from the obligation to register
NZIoC (New Zealand):	Exemptions from the obligation to register
ENCS (Japan):	Exemptions from the obligation to register
KECI (Korea):	Exemptions from the obligation to register
PICCS (Philippines):	Exemptions from the obligation to register
IECSC (China):	Exemptions from the obligation to register
TCSI (Taiwan):	Exemptions from the obligation to register
TSCA (USA):	This product meets the 40 CFR §710.3(d) article definition and is therefore exempt from the TSCA Inventory.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

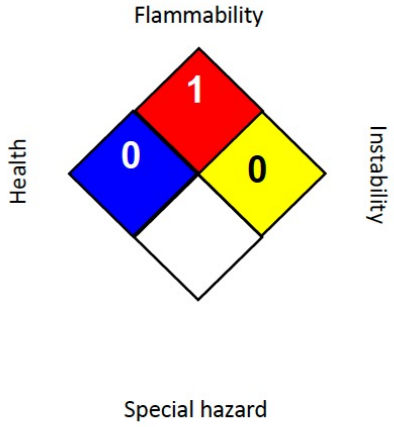
Revision Date:	6/17/2026
Other Information:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases: Not applicable (product is not classified as hazardous under GHS).

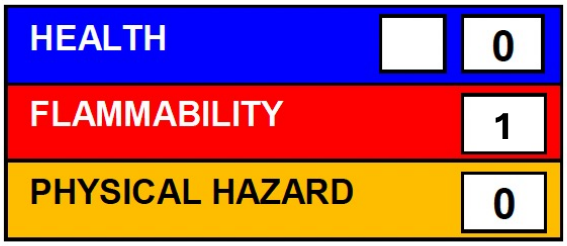
Comment re NFPA and HMIS ratings below: Flammability rating of 1 appears correct for NFPA which relates to a material that will burn in air if exposed to >815.5 C (1500 F) for 5 minutes.

Do you have data that shows that under HMIS IV, the “0” rating for Flammability is correct? I don’t use HMIS, and I don’t have the current criteria for it.

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication. NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE. In all cases, it is the responsibility of the user to determine the applicability of such information and recommendations and the suitability of any product for its own particular purpose. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)