SAFETY DATA SHEET



EnviroCure Liner

PATENT PENDING

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	EnviroCure Liner		
Trade Name	• AFI-001		
Company	• United Felts, 450 College Drive, Martinsville, VA 24112		
Company Contact	Mark Chandler		
Company Phone	• 276-656-1904		
Emergency	• 276-656-1904		

2. HAZARDS IDENTIFICATION

Appearance	• White		
Physical state	• Solid		
Odor	• Faint		
Classification	• No need for classification according to GHS criteria for this product.		
Signal Word	• Not classified.		
Hazard Statement	• If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air		
Precautionary Statement – Prevention	• Avoid prolonged or repeated eye/skin contact.		
Precautionary Statement – Disposal	• Dispose in accordance with local, state and federal regulations.		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Polyetyhlene Terephthalate	25038-59-9	60 - 80
Ethylene Alpha-olefin resin	Proprietary	3 - 15
Ethylene Copolymer	Mixture	1 - 8
Polyamide	25038-54-4	< 4
Titanium Dioxide	13463-67-7	< 3

One or more of the ingredients have been claimed as trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s), if any, are given on this SDS.

This product may have been produced with Titanium Dioxide. Titanium Dioxide is not water soluble and is encapsulated. It is not extracted or released in normal processing. Therefore, Titanium in this material does not represent a hazard in normal handling, processing use and disposal.



3. COMPOSITION/INFORMATION ON INGREDIENTS (CONTINUED)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if applicable are listed in Section 8.

4. FIRST AID MEASURES

Description of First Aid Measures	
General advice	• If exposed or concerned: Get medical advice/attention.
Eye contact	• Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	• Product is not expected to be hazardous by skin contact. Should irritation occur, rinse with water.
Inhalation	• If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Ingestion	Not a probable route of exposure.
Indication of any immediate medical attention and special treatment needed	
Notes to Physician	• No specific advice. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	 Dry chemical Carbon dioxide (CO₂) Water spray (fog) <i>or</i> Regular foam 	
Unsuitable Extinguishing Media	• Do not use a solid water stream as it may scatter and spread the fire.	
Special Hazards arising from the Chemical	• Product presents a low hazard under usual industrial or commercial use. However, if a processing step results in a significant amount of airborne fibers, a dust-air explosive mixture may form.	
Hazardous Combustion Products	• Hazardous combustion products produced consist of carbon dioxide, carbon monoxide, various hydrocarbon fragments as well as thick smoke.	
Protective Equipment and Precautions for Firefighters	• As in any fire, wear self-contained breathing apparatus pressure- demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	



6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Observe precautions from other sections.
Environmental precautions	• Not applicable.
Methods and material for containment and cleaning up	• Not applicable.

Precautions for safe handling		
Advice on safe handling	• Use care in handling and storage. Avoid breathing dust created by grinding or cutting. Dust generated from grinding or cutting may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.	
Conditions for safe storage, including any incompatibilities		
Storage conditions	No special storage requirements.	

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	If a component is disclosed in Section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.			
Chemical Name	ACGIH TLV	OSHA PEL	OSHA PEL IDLH	
• Titanium Dioxide 13463-67-7	• TTWA: 10 mg/m ³	 TWA: 15 mg/m³ total dust (Vacated) TWA: 10 mg/m³ total dust 	 IDLH: 5000 mg/m³ TWA: 2.4 mg/m³ CIB 63 fine TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale 	
Appropriate Engineering Controls				
Engineering controls	• Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.			



Individual protection measures, such as personal protective equipment • To minimize the risk of injury to the eyes and face, always wear eye and *Eye/Face protection* face protection when the fiber products are cut, chopped or manipulated in other similar handling methods. Select and use eye and face protection when a risk assessment indicates this is necessary to avoid exposure to dusts. Skin and body • Wear suitable protective clothing. If the material is heated, wear gloves to protect against thermal burns. protection • Use a properly fitted, air-purifying or air-fed respirator complying with an Respiratory protection approved standard if a risk assessment indicates this is necessary. Under normal use conditions, respirator is not usually required. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. • Wash hands, forearms and face thoroughly after handling products, before General hygiene considerations eating, smoking and using the lavatory and at the end of the working period.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

9. PHYSICAL & CHEMICAL PROPERTIES

Information on basic physical and chemical properties			
Physical state	Solid - Polyurethane coated liner		
Appearance	Folded flat liner		
Color	• White		
Odor	• Faint		
Property	Values		
рH	• Not determined.		
Melting point	• 419 - 572 °F (215 - 300 °C)		
Boiling point	• Not applicable.		
Flash point	Not applicable. Combustible dust.		
Evaporation rate	• Not determined.		
Flammability (solid, gas)	• Not determined.		
Upper flammability or explosive limits in air	Not available.		
Lower flammability or explosive limits in air	Not available.		
Vapor pressure	• Negligible.		
Vapor density	• Not determined.		
Relative density (Water=1)	• >1		
Water solubility	Negligible.		



9. PHYSICAL & CHEMICAL PROPERTIES (CONTINUED)

Property	Values
Solubility in other solvents	Not determined.
Partition coefficient	Not determined.
Auto ignition temperature	Not determined.
Decomposition temperature	Not determined.
Kinematic viscosity	Not determined.
Dynamic viscosity	Not determined.
Explosive properties	Not determined.
Oxidizing properties	Not determined.

10. STABILITY & REACTIVITY

Reactivity	Not reactive under normal conditions.		
Chemical stability	• Stable under recommended storage conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	• Keep away from heat, sparks, and flame – combustible when exposed to open flames.		
Incompatible materials	• Reactive or incompatible with the following materials: oxidizing materials.		
Hazardous decomposition product(s)	• Thermal decomposition products can include carbon dioxide, carbon monoxide and various hydrocarbon fragments.		



11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure				
Eye contact	Low hazard of exposure under normal use.			
Skin contact	Low hazard of exposure under normal use.			
Inhalation	• Low hazard of exp	oosure under normal	use.	
Ingestion	• Low ingestion haz	zard.		
Component Information				
Chemical Name	Oral LD50	Dermal LD50	Inhalation LCS	50
• Titanium dioxide 13463-67-7	 > 10000 mg/kg (Rat) 	 > 10000 mg/kg (Rabbit) 	• -	
Symptoms related to the physical, chemical and toxicological characteristics				
Symptoms	Please see section	n 4 of this SDS for sy	mptoms.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Skin corrosion/ irritation	• Exposure to dust	may cause mechanic	al irritation.	
Serious eye damage/eye irritation				essive concentrations of d may cause unpleasant
Carcinogenicity	IARC (2B). Titaniu		roducts of this m	is a listed carcinogen by aterial is not believed to
Chemical Name	ACGIH	IARC	NTP	OSHA
• Titanium Dioxide 13463-67-7		• Group 2B		• X
A3 - Animal Carcir IARC (Internation Group 2A - Probat Group 2B - Possib NTP (National Tox Reasonably Antici	Conference of Gove nogen al Agency for Resear oly Carcinogenic to H ly Carcinogenic to Hu (icology Program) pated - Reasonably A nal Safety and Healt	r ch on Cancer) umans imans inticipated to be a Hu	uman Carcinoger	



11. TOXICOLOGICAL INFORMATION (CONTINUED)

Reproductive toxicity	• Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.
STOT - single exposure	• Evaluation of available data suggests that this material is not an STOT-SE toxicant.
STOT - repeated exposure	 Contains a component(s) that is/are not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.
Aspiration hazard	• Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity	• Not acutely toxic to aquatic life by GHS criteria.
Persistence/Degradability	Not determined.
Bioaccumulation	• There is no data for this product.
Mobility	Insoluble solid.
Other Adverse Effects	Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods	
Disposal of wastes	• Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	• Disposal should be in accordance with applicable regional, national and local laws and regulations.

Notes: This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.



14. TRANSPORT INFORMATION

Note: This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations. Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT	
UN/ID No	Not applicable.
Proper shipping name	Not applicable.
Hazard class	Not applicable.
Packing group	Not applicable.
ΙΑΤΑ	
UN number	Not regulated.
Proper shipping name	Not regulated.
Transport hazard class(es)	Not regulated.
Packing group	Not regulated.
IMDG	
UN number	• Not regulated.
Proper shipping name	• Not regulated.
Transport hazard class(es)	• Not regulated.
Packing group	• Not regulated.
Marine pollutant	• This material does not meet the definition of a marine pollutant.

15. REGULATORY INFORMATION

Product as supplied, is an article under TSCA. The fiber may have been produced with titanium dioxide. This substance, as present in this material, is not water soluble and is encapsulated in the polymer. Titanium dioxide is not extracted or released in normal processing and handling. Therefore, this compound is not expected to present a hazard in normal handling, processing, use and disposal.

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
PET (Polyethylene Terephthalate)	Х	Active	Х	X	X	X	X	X	X
Titanium Dioxide	Х	Active	Х	X	Х	Х	Х	×	Х
Polyamide	Х	Active	Х	Х	X	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical

Substances

ENCS - Japan Existing and New Chemical Substances

 $\ensuremath{\mathsf{IECSC}}$ - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances



15. REGULATORY INFORMATION (CONTINUED)

US Federal Regulation	ns						
CERCLA							
Chemical Name		Hazardous Substances RQs		CERCLA/SARA RQ		Reportable Quantity (RQ)	
None Listed							
SARA 313							
Chemical Name		CAS No		Weight-%		SARA 313 - Threshold Values %	
None Listed							
CWA (Clean Water Ac	:t)						
Chemical Name	CWA - Reportat Quantities						CWA - Hazardous Substances
None Listed							
US State Regulations California Proposition	ı 65		·				· · · · · · · · · · · · · · · · · · ·
This product contains	the following P	roposition	65 chemic	als			

Chemical Name	California Proposition 65
• Titanium dioxide - 13463-67-7	Carcinogen
Carcinogen, initial date 9/2/11 (airborne, unbou	Ind particles of respirable size)

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
• Titanium Dioxide	Х	Х	Х
13463-67-7			

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards					
	1	1	0	Not determined					
HMIS	Health Hazards	Flammability	Physical hazards	Personal Protection					
	1	1	0	Not determined					
Issue Date:	09-Mar-2022	09-Mar-2022							
Revision Date:	26-May-2024								
Revision Note:	New SDS								
Disclaimer	 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 								