SAFETY DATA SHEET

Revision Date: July 25th 2022

Section 1 : Identification

Description: Needle punched nonwoven substrate made from a blend of white polyester fibers with or without heat treatment surface finish.

Product code : Pro Fleece

Product use : Roofing and industrial applications.

Manufacturer details : Siplast, Inc.
14911 Quorum Drive, Ste. 600, Dallas, TX 75254
Tel: 800-922-8800, www.siplast.com

Emergency Telephone : CANUTEC (613) 996-6666 CHEMTREC 800-424-9300

Section 2 : Hazard Identification

United States (US) According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture		OSHA HCS 2012	Not classified
Label Elements	OSHA HCS 2012		No label element(s) required.
Other Hazards	OSHA HCS 2012:		

Titanium dioxide is not water soluble and is encapsulated. It is not extracted or released in normal processing. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal. Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use.

Canada

According to WHMIS 2015 (Workplace Hazardous Material Information System)

Classification of the Substance or Mixture		WHMIS 2015	Not classified
Label Elements		WHMIS 2015	No label element(s) required
Other Hazards	WHMIS 2015:		

Titanium dioxide is not water soluble and is encapsulated. It is not extracted or released in normal processing. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal. In Canada, this product is considered a manufactured article under the Workplace Hazardous Materials Information System (WHMIS) and is exempt.

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

Classification of the Substance or Mixture	CLP	Not classified
Label Elements	CLP	No label element(s) required
Other Hazards:	CLP:	

Titanium dioxide is not water soluble and is encapsulated. It is not extracted or released in normal processing. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal. This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.

Other Information This material, as an article, does not legally require a SDS.

Section 3 : Composition/information on ingredients

Substances: Material does not meet the criteria of a substance in accordance with Regulation (EC) No1272/2008

Composition:

Component	CAS#	Weight %
Polyethyleneterephthalate	25038-59-9 (typical) NDA	≥ 90%
Titanium Dioxide	13463-67-7	≤ 5%
Fiber Lubricants	Proprietary NDA	≤ 3%
Color pigment	Proprietary NDA	≤ 2%
Catalyst	Proprietary NDA	≤ 1%

Section 4 : First aid measures

Inhalation: No data available.

Skin Contact: Product is not expected to be hazardous by skin contact. Should irritation occur rinse with water.

Eye Contact: Flush eyes with water as a precaution. If irritation persist get medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Never give anything by mouth to a victim who is or is having convulsions. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically.

Section 5 : Firefighting measures

Suitable Extinguishing Media: LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO_2, water spray or regular foam

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Unusual Fire and Explosion Hazards: Some may burn, but none ignite readily.

Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire. Carbon monoxide, carbon dioxide, various hydrocarbon fragments as well as thick smoke.

Advice for Firefighters: Wear positive pressure self - contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not touch or walk through spilled material.
No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.
Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Sweep up or gather material and place in appropriate container.
Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 : Handling and storage

Precautions for Safe Handling:

When material is cut, chopped, or manipulated in other similar methods, some dust may be produced. Use good housekeeping methods to keep accumulation of dust to a minimum.

Conditions for safe storage, including any incompatibilities:

Ventilate enclosed areas. Keep container closed. Keep away from heat, sparks and flame.

Section 8 : Exposure controls/personal protection

Exposure Limits / Guidelines

Titanium dioxide (13463-67-7):

Result	ACGIH	Canada Ontario	Canada Quebec	China	OSHA
STELs	Not established	Not established	Not established	16 mg/m3 STEL (total dust)	Not established
TWAs	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWAEV (no Asbestos and <1% Crystaline silica, total dust)	8 mg/m3 TWA (total dust)	15 mg/m3 TWA (total dust)

Exposure Control Notations

Germany DFG

Titanium dioxide (13463-67-7): Carcinogens (Category 3A (could be carcenogenic for man, inhalable fraction with exception of ultra small particles)).

Engineering Measures / Controls

Dilution ventilation. Adequate ventilation system as needed to control concentrations of airborn contaminants below applicable threshold limit values.

Respiratory Protection:

For limited exposure use an N95 dust mask. For prolonged exposure use an air respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face: Wear safety goggles.

Hands/Skin/Body: Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Work / Hygiene Practices: Wash hands before eating.
Follow best practice for site management and disposal of waste.

Other information:	Molten polymer or prolonged air drying of polymer at temperatures above 195ºF (91ºC) will release small quantities of acetaldehyde (CAS#75-07-0).

Section 9 : Physical and chemical properties

Material Description	
Physical Form:	Solid / needle punched nonwoven
Color:	Typically White / Off-White
Odor:	Odorless
Odor Threshold:	Data lacking
General Properties	
Boiling Point:	Data lacking
Decomposition Temperature:	Data lacking
Specific Gravity (water = 1):	Data lacking
Viscosity:	Data lacking
Oxidizing Properties:	Not an oxidizer
Melting Point:	110 - 300 °C (230 - 572 °F)
pH:	Data lacking
Water Solubility:	Insoluble
Explosive Properties:	Not explosive.
Volatility	
Vapor Pressure:	Data lacking
Evaporation Rate:	Data lacking
Vapor Density (air = 1):	Data lacking
VOC (Wt.):	0.5%
Flammability	
Flash Point:	Not relevant
LEL / UEL:	Not relevant
Flammability (solid, gas):	Not flammable
Autoignition Temperature:	Not relevant
Environmental	
Octanol/Water Partition coefficient	Data lacking

Section 10 : Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Stability:	Stable under normal temperatures and pressures.
Possibility of hazardous	Hazardous polymerization not indicated.
Conditions to Avoid:	Keep away from heat, sparks and flame.
Incompatibility:	This product may react with strong oxidizing agents.
Hazardous decomposition products:	Molten polymer or prolonged air drying of polymer at temperatures above 195ºF (91ºC) will release small quantities of acetaldehyde (CAS#75-07-0).

Section 11 : Toxicological information

Information on toxicological effects:

GHS Properties	Classification
Acute toxicity	EU/CLP • Not relevant
Skin corrosion/Irritation	OSHA HCS 2012 • Not relevant
Serious eye damage/Irritation	WHMIS 2015 • Not relevant

Skin sensitization	
Respiratory sensitization	
Aspiration Hazard	
Carcinogenicity	
Germ Cell Mutagenicity	
Toxicity for Reproduction	
STOT-SE	
STOT-RE	

Potential Health Effects:

Inhalation

Acute (Immediate) Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed) No data available

Skin

Acute (Immediate) Exposure to dust may cause mechanical irritation.

Chronic (Delayed) No data available

Eye

Acute (Immediate) Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed) No data available

Ingestion

Acute (Immediate) Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed) No data available

Carcinogenic Effects

Titanium dioxide (airborne particles of respirable size) is a listed carcinogen by IARC (2B). Titanium dioxide used in products of this material is not believed to have the potential to become of respirable size.

Titanium dioxide, CAS# 13463-67-7, Group 2B-Possible Carcinogen (IARC)

Section 12 : Ecological information

Toxicity

This product is not expected to produce significant ecotoxicity and aquatic systems. Based on similar substances, this material is expected to be essentially non-biodegradable.

Persistence and degradability

Material data lacking. Based on the physical properties of this product, significant environmental persistence is not expected.

Bioaccumulative potential

Material data lacking. Based on the physical properties of this product, significant environmental bioaccumulation is not expected.

Mobility in Soil Material data lacking.

Results of PBT and vPvB assessment Material data lacking.

Ecological Fate Potential Material data lacking.

Environmental Effects Material data lacking.

Section 13 : Disposal considerations

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 : Transport information

	UN number	UN proper shiping name	Transport hazard class	Packaging group	Enviro hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

Specal precautions for users: None known.
Transport in bulk - Annex II of MARPOL 73/78 and BIBC Code: Not relevent.

Section 15 : Regulatory information

SARA Hazard Classifications None

Titanimum dioxide (13463-67-7)

State Right To Know:	MA, NJ, PA = Yes
Inventory: Canada DSL = Yes	Inventory: China = Yes
Inventory: Canada NDSL = No	Inventory: Japan ENCS = Yes
Inventory: EU EINECS = Yes	Inventory: Korea KECL = Yes
Inventory: EU ELNICS = No	Inventory: TSCA = Yes

Canada

Labor / Canada WHMIS 1988 - Classification of Substances

Titanimum dioxide (13463-67-7) D2A (in certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues: Titanium dioxide, mixture contaning on Health Canada's WHMIS Division website)

Labor / Canada WHMIS - Ingredient Disclosure List

Titanimum dioxide (13463-67-7) Not Listed

Environment / Canada - CEPA - Priority Substances List

Titanimum dioxide (13463-67-7) Not Listed

Europe

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification (OBSOLETE)
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits (OBSOLETE)
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling (OBSOLETE)
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations (OBSOLETE)
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases (OBSOLETE)

Titanimum dioxide (13463-67-7) Not Listed

United States

Labor / U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
Labor / U.S. - OSHA - Specifically Regulated Chemicals

Titanimum dioxide (13463-67-7)	Not Listed

Environment / U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Polluants
Environment / U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Environment / U.S. - CERCLA/SARA - Radionuclides and their Reportable Quantities
Environment / U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
Environment / U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs.
Environment / U.S. CERCLA/SARA - Section 313 - Emission Reporting
Environment / U.S. CERCLA/SARA - Section 313 - PBT Chemical Listing Reporting

Titanimum dioxide (13463-67-7)	Not Listed

Environment / U.S. - California - Proposition 65 - Carcinogens List

Titanimum dioxide (13463-67-7)	⚠ WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Environment / U.S. - California - Proposition 65 - Developmental Toxicity
Environment / U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
Environment / U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
Environment / U.S. - California - Proposition 65 - Reproductivity Toxicity - Female
Environment / U.S. - California - Proposition 65 - Reproductivity Toxicity - Male

Titanimum dioxide (13463-67-7)	Not Listed

Labor / U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Labor / U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Titanimum dioxide (13463-67-7)	Not Listed

Chemical Safety Assessment

Chemical Safety Assessment is not required.

Other Information

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 : Other information

The information contained in this Safety Data Sheet is correct to the best of our current knowledge, information, experience and belief at the date of publication; No responsibility is accepted that the information is sufficient or correct in all cases. This information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release of the material, and to help ensure the safety and health of employees, customers and the protection of the environment. It is not 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 process.