

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 3/21/2019 Date of Issue: 03/07/2012

SECTION 1: IDENTIFICATION			
1.1. Product Identifier			
Product Form: Mixture			
Product Name: Thermo-Sleeve, Express Sleeve: Pa	rt number 14005 through 1403	5-50	
Synonyms: Woven fiberglass fabric			
1.2. Intended Use of the Product			
Use of the Substance/Mixture: No use is specified			
1.3. Name, Address, and Telephone of the	e Responsible Party		
Company			
Thermo Tec Automotive, Inc.			
P.O. Box 96; Greenwich, OH 44837			
1.4. Emergency Telephone Number			
Emergency Number : 1-80	0-274-8437		
SECTION 2: HAZARDS IDENTIFICATION			
2.1. Classification of the Substance or Mix	ture		
GHS-US Classification			
Not classified			
2.2. Label Elements			
GHS-US Labeling			
No labeling applicable			
2.3. Other Hazards			
Exposure may aggravate pre-existing eye, skin, or i	respiratory conditions.		
2.4. Unknown Acute Toxicity (GHS-US)			
No data available			
SECTION 3: COMPOSITION/INFORMATIO	N ON INGREDIENTS		
3.1. Substance			
Not applicable			
3.2. Mixture			
Name	Product Identifier	%	GHS-US classification
Glass. oxide. chemicals	(CAS No) 65997-17-3	98	Not classified
Overspray	(CAS No) Proprietary	2	Not classified
The specific chemical identity and/or exact percen	tage of composition have been y	vithheld as a trac	le secret [29 CER 1910 120
SECTION 4: EIRST AID MEASURES	tage of composition have been		le secret [25 er lt 1510.120
SECTION 4. FIRST AID WEASORES			
4.1. Description of First-ald Weasures		on If you fool	wall cook modical advice
rifst-aid weasures General: Never give anything t	by mouth to an unconscious pers	son. If you reel un	iwell, seek medical advice
(Show the laber where possible).			

First-aid Measures After Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed 4.2.

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

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Chronic Symptoms: None expected under normal conditions of use. As manufactured, Sleeving Materials are non- respirable. Non-respirable fibers cannot reach the deep lung, because they have a diameter of greater than 3.5 microns. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung and thus, have no possibility of causing serious pulmonary damage. Instead they are deposited on the surface of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms. Chopped, crushed or severely mechanically processed fiberglass may contain a very small amount of respirable fibers that could reach the deep lung. The measured airborne concentration of these respirable fibers in areas where severe processing of fiberglass occurred has been shown to be extremely low and well below the TLV. Sleeving Material in the form supplied do not contain respirable fibers.

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

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, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

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

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO₂). Organic compounds. Nitrogen oxides. Ammonia. Amines.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

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

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: None known.

7.3. Specific End Use(s)

No use is specified

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Glass, oxide,	chemicals (65997-17-3)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	3 fibers/cm³ (fibers ≤3.5 μm in diameter & ≥10μm in length), TWA 5mg/m3 (total)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ total dust, 5 mg/m ³ , respirable fraction 8 hr
8.2. Exp	osure Controls	
Appropriate Personal Pro	Engineering Controls	 Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gloves Protective clothing, Protective goggles, Insufficient ventilation; wear
		respiratory protection
Materials for	Protective Clothing	: Chemically resistant materials and fabrics.
Hand Protect	tion	: Wear protective gloves.
Eye and Face	Protection	: Chemical safety goggles.
Respiratory F	Protection	: If exposure limits are exceeded or irritation is experienced approved respiratory
		protection should be worn. In case of inadequate ventilation, oxygen deficient
		atmosphere, or where exposure levels are not known wear approved respiratory
		protection.
Other Inform	nation	: When using, do not eat, drink or smoke.
SECTION 9:	PHYSICAL AND CHEMICA	L PROPERTIES
9.1. Info	rmation on Basic Physical a	and Chemical Properties
Physical State	e	: Solid
Appearance		: White woven fabric
Odor		: No significant odor
Odor Thresh	old	: No data available
рн	Data	: No data available
Evaporation	Kate	
Ivieiting Poin	t 	2 > 1400 F (/60 °C)
Freezing Poir	10	: No data available
Flack Deint		: No data available
Auto ignition	Tomporatura	: No data available
Decompositi	on Temperature	• No data available
Elammability	(solid gas)	• No data available
Vanor Pressu	(190110, 803) Ire	: No data available
Relative Van	or Density at 20°C	: No data available
Relative Den	sitv	: No data available
Specific Grav	itv	: 2.6
Solubility	-	: Insoluble
, Partition Coe	efficient: N-Octanol/Water	: No data available
Viscosity	-	: No data available
9.2. Oth	er Information No additiona	l information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

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10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: None known.

10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Skin Corrosion/Irritation: Not classified Serious

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified. The International Agency for Research on Cancer (IARC) in June, 1987 categorized fiber glass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiberglass continuous filament as a possible, probable, or confirmed cancer causing material. The American Conference of Governmental Industrial Hygienists (ACGIH) A4 classification, not classifiable as a human carcinogen, for respirable continuous filament glass fiber is based on inadequate data in terms of its carcinogenicity in humans and/or animals. For respirable continuous filament glass fiber, a TLV-TWA of 1 fiber/cc was adopted to protect workers against mechanical irritation. The TLV-TWA of 5 mg/m3 was adopted for non-respirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract. Products that are chopped, crushed or severely mechanically processed during manufacture or use may contain a very small amount of respirable glass fiber-like fragments. NIOSH defines "respirable fibers" as greater that 5 microns in length and less than 3 microns in diameter with an aspect ratio of ≥ 5:1 (length-to –width ratio). There are no known chronic health effects connected with longterm use or contact with Sleeving Material. EPIDEMIOLOGY STUDIES: Two major studies, one in the US performed by the University of Pittsburgh and one in Europe performed by the International Agency for Research on Cancer showed no increase in lung cancer or respiratory disease among people working in fiber glass production facilities. An additional smaller study performed in Canada also did not show an association between exposure of workers to fiber glass and respiratory cancer.

Glass, oxide, chemicals (65997-17-3)

IARC group	2B

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use. As manufactured, Sleeving Materials are non- respirable. Non-respirable fibers cannot reach the deep lung, because they have a diameter of greater than 3.5 microns. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung and thus, have no possibility of causing serious pulmonary damage. Instead they are deposited on the surface of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms. Chopped, crushed or severely mechanically processed fiberglass may contain a very small amount of respirable fibers that could reach the deep lung. The measured airborne concentration of these respirable fibers in areas where severe processing of fiberglass occurred has been shown to be extremely low and well below the TLV. Sleeving Material in the form supplied do not contain respirable fibers.

SECTION	ECTION 12: ECOLOGICAL INFORMATION	
12.1.	Toxicity	
Ecology -	y - General : Not classified.	
12.2.	12.2. Persistence and Degradability	
Sleeving	Sleeving Material	
Persister	ersistence and Degradability Not established.	
12.3.	12.3. Bioaccumulative Potential	
Sleeving	Sleeving Material	
Bioaccur	Jioaccumulative Potential Not established.	

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12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information

: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Glass, oxide, chemicals (65997-17-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State Regulations Neither this product nor its chemical components appear on any US state lists.

15.2. International Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substances listed on Annex II of Directive 2011/65/EU (RoHS 2).

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Glass, oxide, chemicals (65997-17-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Date of Preparation or Latest Revision Other Information : 3/21/2019

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

The information herein is given in good faith, but no warranty, expressed or implied is made and we assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

SDS US (GHS HazCom)



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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Thermo-Sleeve, Express Sleeve: Part number 14005 through 14035-50

1.2. Intended Use of the Product

Use of the Substance/Mixture: No use is specified

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

Company

Thermo Tec Automotive, Inc.

P.O. Box 96; Greenwich, OH 44837

1.4. Emergency Telephone Number

Emergency Number

: 1-800-274-8437

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable

2.3. Other Hazards

The following applies to the product if it is cut, sanded or altered in such a way that excessive and/or significant particulates and/or dusts may be generated: Dust may cause mechanical irritation to eyes, nose, throat, and lungs. Risk of thermal burns on contact with molten product. Vapors from burning may be irritating to the respiratory tract or cause narcosis with symptoms of headache, dizziness and nausea; allergic-type of sensitization may occur with inhalation, causing symptoms of wheezing and shortness of breath.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%
Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenylenecarbonyl)	(CAS No) 25038-59-9	60 - 80
Ethylene bis(tetrabromophthalimide)	(CAS No) 32588-76-4	8 - 12
Aluminum hydroxide (Al(OH)3)	(CAS No) 21645-51-2	2 - 8
Antimony oxide (Sb2O3)	(CAS No) 1309-64-4	<= 6
Aluminum	(CAS No) 7429-90-5	<= 3
Titanium Dioxide	(CAS No) 13463-67-7	<= 2

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labelled directions. This mixture is considered an article in its final form.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: The need for first aid is not anticipated under normal conditions of use.

First-aid Measures After Inhalation: Not expected to be a primary route of exposure. For particulates, dust, or fumes from processing: Move to fresh air.

First-aid Measures After Skin Contact: Gently wash with plenty of soap and water. Do not rub. Not expected to present a significant dermal hazard under anticipated conditions of normal use. Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance.

First-aid Measures After Eye Contact: No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: If swallowed, do not induce vomiting. Rinse mouth and obtain medical attention if necessary.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: For particulates, dust, or fumes from processing: Prolonged contact with large amounts of dust may cause mechanical irritation. Inhalation of vapors and fumes may cause respiratory irritation and sensitization. High concentration of vapors may induce: headache, nausea, dizziness, and shortness of breath.

Symptoms/Injuries After Skin Contact: Direct contact may cause irritation by mechanical abrasion. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Ingestion of large quantities can cause an obstruction causing pain and distress in the digestive tract.

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

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, foam. Water is the best extinguishing media.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Hazardous Combustion Products: Carbon oxides (CO, CO2). Nitrogen oxides. Hydrogen cyanide. Hydrocarbons.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Accidental release of the product does not present a hazard under normal conditions of use.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use of personal protective equipment is not generally required but should be evaluated based on the extent and severity of accidental release.

Emergency Procedures: Evacuate the area if accidental release presents a significant hazard.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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

The product does not pose a significant hazard to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain the product and collect as any solid.

Methods for Cleaning Up: Clean up accidental release immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping as conditions permit.

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: Further processing of the product requires an evaluation of potential hazards based upon intended use.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry location. Protect from physical damage.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Ammonia. Amines. Pyridine. Potassium oxides.

7.3. Specific End Use(s)

No use is specified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Aluminum (7	429-90-5)	
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m ³ (total dust)
		5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)
		5 mg/m ³ (respirable fraction)

Antimony oxide (Sb2O3) (1309-64-4)

USA ACGIH ACGIH chemical category Suspected Human Carcinogen production

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (respirable)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m ³ (total dust)

8.2. Exposure Controls	
Appropriate Engineering Controls	: Engineering controls are not required for normal use of this product.
Personal Protective Equipment	 Personal protective equipment is not generally required but should be evaluated based on conditions of use.
Hand Protection	: Wear protective gloves.
Eye and Face Protection	: Safety glasses recommended for cutting and other operations where particles may be generated.
Skin and Body Protection	: Wear appropriate gloves when handling.
Respiratory Protection	: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if found to be necessary.
Other Information	: When using, do not eat, drink or smoke.
SECTION 9: PHYSICAL AND CHEMIC	AL PROPERTIES
9.1. Information on Basic Physical	and Chemical Properties
Physical State	: Solid
Appearance	: Coated film, silver in color
Odor	: No significant odor
Odor Threshold	: No data available
рН	: No data available
Evanoration Rate	
Evaporation nate	: No data available
Melting Point	: No data available : No data available
Melting Point Freezing Point	: No data available : No data available : No data available

Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: 1.2 - 1.4
Solubility	: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Incompatible Materials: Strong acids.

10.5. Hazardous Decomposition Products: Carbon oxides (CO, CO2). Nitrogen oxides. Hydrogen cyanide. Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Ethylene bis(tetrabromophthalimide) (32588-76-4)	
LD50 Oral Rat	> 7500 mg/kg
LD50 Dermal Rat	> 2 g/kg
LC50 Inhalation Rat	> 203 mg/l (Exposure time: 1h)

 Aluminum hydroxide (Al(OH)3) (21645-51-2)

 LD50 Oral Rat
 > 5000 mg/kg

 Antimony oxide (Sb2O3) (1309-64-4)

 LD50 Oral Rat
 > 34600 mg/kg

 Titanium dioxide (13463-67-7)

 LD50 Oral Rat
 > 10000 mg/kg Skin

Corrosion/Irritation: Not classified Serious

Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: No adverse effects are expected.

Germ Cell Mutagenicity: No evidence of mutagenic effects.

Carcinogenicity: Not classified. (Antimony oxide is bound and sealed in the finished fabric and is not biologically available. Titanium dioxide is bound in the fabric and is not able to become airborne. Thus, the hazards usually associated with titanium dioxide are not applicable to this product.)

Antimony oxide (Sb2O3) (1309-64-4)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Titanium dioxide (13463-67-7)	
IARC group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: For particulates, dust, or fumes from processing: Prolonged contact with large amounts of dust may cause mechanical irritation. Inhalation of vapors and fumes may cause respiratory irritation and sensitization. High concentration of vapors may induce: headache, nausea, dizziness and shortness of breath.

Symptoms/Injuries After Skin Contact: Direct contact may cause irritation by mechanical abrasion. Risk of thermal burns on contact with molten product.

Symptoms/Injuries After Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Ingestion of large quantities can cause an obstruction causing pain and distress in the digestive tract.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION		
12.1. Toxicity		
Ecology – General	: Not classified	
Antimony oxide (Sb2O3) (1309-64-4)		
LC50 Fish 1	>80 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	>1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	>1000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
EC50 Daphnia 2	361.5 - 496.0 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
ErC50 (Algae)	67 mg/l	

12.2. Persistence and Degradability

Aluminum Foil		
Persistence and Degradability	Not established.	
12.3. Bioaccumulative Potential		
Aluminum Foil		
Bioaccumulative Potential	Not established.	
Ethylene bis(tetrabromophthalimide) (32588-76-4)		
BCF Fish 1	0.3 – 1.3	

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

: Avoid release to the environment.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Consult current IATA Regulations prior to shipping by air.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Poly(oxy-1,2-ethanediyloxycarbonyl-1,4-phenylenecarbonyl) (25038-59-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under	
	the Inventory Update Reporting Rule, i.e, Partial Updating of	
	the TSCA Inventory Data Base Production and Site Reports (40	

	CFR 710(C))		
Aluminum (7429-90-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Subject to reporting requirements of United States SARA Sec	tion 313		
SARA Section 313 - Emission Reporting	1.0 % (dust or fume only)		
	·		
Ethylene bis(tetrabromophthalimide) (32588-76-4)			
Listed on the United States TSCA (Toxic Substances Control A	sct) inventory		
Aluminum hydroxide (Al(OH)3) (21645-51-2)			
Listed on the United States TSCA (Toxic Substances Control A	ct) inventory		
Antimony oxide (Sb2O3) (1309-64-4)			
Listed on the United States ISCA (Toxic Substances Control A	ct) inventory		
	di 0001		
Titanium diaxida (12462-67-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
15.2. US State Regulations			
Antimony oxide (Sb2O3) (1309-64-4)			
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State		
	of California to cause cancer.		
Titemium diauida (12402 07 7)			
IIS - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State		
0.3 Camornia - Proposition 05 - Carcinogens List	of California to cause cancer		
Aluminum (7429-90-5)			
U.S Massachusetts - Right To Know List			
U.S New Jersey - Right to Know Hazardous Substance List			
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List			
U.S Pennsylvania - RTK (Right to Know) List			
Titanium dioxide (13463-67-7)			
U.S Massachusetts - Right To Know List			
U.S New Jersey - Right to Know Hazardous Substance List			
U.S Pennsylvania - RTK (Right to Know) List			
SECTION 16: OTHER INFORMATION. INCLUDING DATE OF PREPARATION OR LAST REVISION			
Date of Preparation or Latest Revision	06/29/2021		
Other Information	This document has been prepared in accordance with the SDS		

requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

The information herein is given in good faith, but no warranty, expressed or implied is made and we assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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