



Z-Flex® MLA Aluminized Products

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 10/03/2016 Date of Issue: 10/03/2016

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Z-Flex® MLA Aluminized Products

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

NEWTEX INDUSTRIES, INC.
8050 Victor-Mendon Road
Victor, New York 14564
(585) 924-9135

1.4. Emergency Telephone Number

Emergency Number : 1-800-836-1001 (USA)

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 (Sb ₂ O ₃)	(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 labeled 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.

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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.

Chronic Symptoms: None expected under normal conditions of use.

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

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: Product is 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 fire.

Firefighting Instructions: Use firefighting measures appropriate for the surrounding fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

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 (PPE) 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 as conditions warrant.

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

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 advice on personal protective equipment 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: There are no specific precautions necessary for safe handling of the product.

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: No technical measures are necessary for storage of the product.

Storage Conditions: Store in cool, dry area away from moisture, excessive heat, and sources of ignition.

Incompatible Products: 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 (7429-90-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Antimony oxide (Sb ₂ O ₃) (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
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/m ³)	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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Coated film, silver in color
Odor	: Slight to no odor
Odor Threshold	: No data available
pH	: Not applicable
Evaporation Rate	: Not applicable
Melting Point	: > 500 °F (> 260 °C)
Freezing Point	: Not applicable
Boiling Point	: Not applicable
Flash Point	: Not applicable
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: Not applicable
Relative Vapor Density at 20°C	: Not applicable
Relative Density	: No data available
Specific Gravity	: 1.2 - 1.4

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Solubility	: Water: Insoluble
Partition Coefficient: N-Octanol/Water	: Not applicable
Viscosity	: Not applicable
9.2. Other Information	
VOC Content	: Not applicable

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.
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Sparks, heat, open flame and other sources of ignition. Incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Ammonia. Amines. Pyridines. Potassium oxides.
- 10.6. Hazardous Decomposition Products:** None known.

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 Rabbit	> 2 g/kg
LC50 Inhalation Rat	> 203 mg/l (Exposure time: 1 h)
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: Not classified

Germ Cell Mutagenicity: Not classified

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.

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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

Z-Flex® MLA Aluminized Products	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Z-Flex® MLA Aluminized Products	
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 : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local, regional, national, and international regulations.

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

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 Section 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 Act) inventory	
Aluminum hydroxide (Al(OH)3) (21645-51-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Antimony oxide (Sb2O3) (1309-64-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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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.
Titanium dioxide (13463-67-7)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State 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	
Antimony oxide (Sb2O3) (1309-64-4)	
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

Revision Date	: 10/03/2016
Other Information	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

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)