

Safety Data Sheet—DuraLam® 65 Series, Silver w/Eterna®

Section 1: Identification

Product name: DuraLam® 65 Series, Silver with Eterna®

Synonyms: PTFE Coated Fiberglass Fabric

SDS Number:

Product Use Description: Buffer, insulator, cover, belt, conveyor, transfer medium

Company: Advanced Flexible Composites

14 Walter Court

Lake in the Hills, IL 60013

Company's Call Center: 800.334.9372

(Emergency Contact): 800.334.9372

Section 2: Hazard(s) Identification

Classifications: Aspiration Hazard (fiberglass as dust, loose fibers) (Category 4)

Aspiration Hazard (PTFE as gas) (Category 2)

Skin Irritation—Eye Irritant (fiberglass as loose fibers) (Category 2)

Skin Irritation—General Irritant (fiberglass as loose fibers) (Category 2)

Pictograms:



Signal Word: Warning

Hazard Statements: May enter the body via inhalation as dust when cut, sawed or shredded.

May irritate eyes and skin as loose fibers when cut, sawed or shredded.

Exposure to temperatures above 300°C (572°F) can result in thermal degradation, causing temporary lung irritation if inhaled.

Long term exposure of thermally degraded product can result in Polymer Fume Fever, resulting in flu-like symptoms including coughing and difficulty breathing.

Precautionary Statements

Prevention: Do not expose to temperatures over 300°C (572°F).

Wear eye protection and gloves when cutting.

Wear mask when aggressively cutting or shredding (under normal conditions, airborne exposure is not significant enough to warrant respiratory protection).

Response: If exposed to temperatures above 300°C (572°F), remove from heat (or turn off heat source), and leave area until fumes dissipate. This material cannot hold a flame.

If inhaled fumes or fibers: move to fresh air.

If fibers are in eye: rinse cautiously with water. Remove contact lenses.

If fibers are on skin: rinse skin.

If lung, eye or skin irritation persists: seek medical attention

Storage: Store in dry environment at ambient temperature

Disposal: No restrictions

Section 3: Composition/Information on Ingredients

Component	CAS-No.	Weight %
Polytetrafluoroethylene (PTFE)	9002-84-0	50-70
Glass Cloth	65997-17-3	30-50
Aluminum Powder	7429-90-5	<1
perfluoroalkoxy alkane polymer	26655-00-5	<3

Section 4: First-Aid Measures

Inhalation: Remove person to fresh air. If condition persists, seek medical attention.

Skin contact: Rinse with water. If rash or itching persist, seek medical attention.

Eye contact: Rinse with water. Remove contacts, do not rub eyes. Seek medical attention.

Ingestion: Not a standard exposure path. No known issues.

Notes to physician: PTFE & Fiberglass are inert. Decomposition of PTFE over 400°C (752°F) can release Carbonyl Fluoride (which breaks down into Hydrogen Fluoride and Carbon Dioxide). Other decomposition products include: Perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, carbon monoxide and trifluoromethane.

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Class A extinguishing media.

Specific hazards during fire-fighting: No unusual fire or explosion hazards inherent in the material.

Special protective equipment for fire-fighters: Wear Bunker Gear and SCBA.

Further information: Neither PTFE nor Fiberglass will hold a flame on their own; however, if combusting due to accelerants or other materials in proximity, fumes may be released. These fumes are toxic and can cause Polymer Fume Fever. Decomposition products from heat include: Carbonyl Fluoride (which breaks down into Hydrogen Fluoride and Carbon Dioxide), Perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, carbon monoxide, trifluoromethane, aluminum oxide, aluminum fumes.

Section 6: Accidental Release Measures

Personal precautions: Do not smoke when handling.

Environmental precautions: None.

Methods for cleaning up: Solid material—collect and dispose in accordance with federal, state and local regulations as a solid non-hazardous waste. Do not incinerate. Dust, fibers—vacuum and containerize.

Section 7: Handling and Storage

Precautions for safe handling: Handle as dry goods. When using for cooking in microwave, clean all cooked and burnt food particles from material prior to starting microwave cycle. Carburized food particles can convert to graphite and arc in microwave.

Conditions for safe storage, including incompatibilities: Follow good warehousing practices. Store in a dry environment, ambient temperature, away from extreme heat sources or open flame.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

List	Components	CAS-No.	Type:	Value
OSHA	Polytetrafluoroethylene (PTFE)	9002-84-0	PEL	As dust: 5mg/m ³ as PNOR and 15mg/m ³ as 8-hr TWA
	Glass Cloth	65997-17-3	PEL	Not Established
	Aluminum Powder	7429-90-5	PEL	As dust only: 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
	perfluoroalkoxy alkane polymer	26655-00-5	PEL	Not Established
ACGIH	Polytetrafluoroethylene (PTFE)	9002-84-0	TLV	As dust: 10mg/m ³ as 10-hr TWA
	Glass Cloth	65997-17-3	TLV	Not Established
	Aluminum Powder	7429-90-5	TLV	As dust only: 10 mg/m ³ TWA (metal dust)
	perfluoroalkoxy alkane polymer	26655-00-5	TLV	Not Established

Section 8: Continued PPE

Engineering measures: Review applications to avoid heat sources over 260°C (500°F).

Eye protection: Safety glasses recommended when cutting.

Hand protection: As desired. Rubber, latex or Nomex gloves recommended for those with skin sensitivity to fiberglass fibers.

Skin and body protection: As desired. No requirements.

Respiratory protection: Dust mask recommended if shredding fabric.

Work/Hygiene practices: Do not smoke when handling material. Practice good warehouse and dry-goods handling to ensure material integrity. Do not store near heat source.

Section 9: Physical and Chemical Properties

Flash Point: None. Cannot self-ignite. Can burn with direct heat only. Will self-extinguish when heat source is removed. Material will arc if carburized with blowtorch then re-heated and placed in microwave oven.

Explosive limits: None.

Vapor: None. Fumes will generate upon exposure to heat source above 300°C (572°F).

Section 10: Stability and Reactivity

Reactivity: None under normal handling and use. Avoid contact with molten alkali metals.

Chemical Stability: PTFE and Fiberglass are Inert. Uncoated aluminum should not be exposed to: Acids, alkalies, acid chlorides, halogenated agents, metal salts, strong oxidizing agents, ammonium nitrate, ammonium persulfate, antimony, arsenic oxides, barium bromate, barium chlorate or barium iodate.

Other: None under normal handling and use. Clean regularly when cooking. Material with carburized particles adhered to it can arc in microwave if carburized particles have been heated to

develop graphite components.

Section 11: Toxicological Information

Acute Effects: None identified when used as intended. Exposure of material to a heat source above 300°C (572°F) can result in thermal degradation, causing temporary lung irritation if inhaled. Long term exposure of thermally degraded product can result in Polymer Fume Fever, resulting in flu-like symptoms including coughing and difficulty breathing.

Chronic Effects: None identified.

Carcinogenic Effects: None identified.

Section 12: Ecological Information (Not mandated by OSHA but part of GHS SDS Requirements)

No known ecological or environmental effects.

Section 13: Disposal Considerations (Not mandated by OSHA but part of GHS SDS Requirements)

Disposal: Treat as non-reactive (inert) solids. Dispose of solid material in accordance with federal, state and local regulations as a solid non-hazardous waste. Do not incinerate. For dust and loose fibers, vacuum and containerize.

Section 14: Transport Information (Not mandated by OSHA but part of GHS SDS Requirements)

CFR Not regulated under 49CFR.

TDG Not regulated under TDG.

IATA Cargo Transport Not regulated under IATA.

Section 15: Regulatory Information (Not mandated by OSHA but part of GHS SDS Requirements)

N/A

Section 16: Other Information

Date of last revision: 19 January, 2015

