



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **3R 510 AL**
 Identity: Aluminized foil fabric
 Description: Aluminized fiberglass cloth

SUPPLIER

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INGREDIENTS AND HAZARDS

The above products are considered “articles” according to OSHA hazard Communication standard 29 CFR 1910.1200 and, as such, as exempt from the Material Safety Data Sheet provisions of 29 CFR 1910.1200(G)(6). As a service to the customer, Industries 3R Inc. has prepared this Material Safety Data Sheet to provide appropriate safety and handling information. These products are considered non-hazardous when used according to accepted practices for the intended use.

COMMON NAME	CHEMICAL NAME	# CAS	WT. %
Base Fabric			75-97%
Aluminized Film			1-2%
Resin (epoxy, acrylic, polyurethane or polyester)		Mixture	3-19%
Decabromodiphenyl Oxide		1163-19-5	>1-4%
Antimony Trioxide		1309-64-4	>1-2%

PHYSICAL DATA

Melting Point (Softening): >~500F (260C)
 Freezing Point: N/A
 Boiling Point (°C): N/A
 Specific Gravity Range (H2O=1): 1.2-1.4
 pH: N/A
 Viscosity: N/A
 Solubility in water: Insoluble
 Percent Volatile by volume: <2.2%
 Vapor Density (Air=1): N/A
 Vapor Pressure (mm Hg): N/A
 Evaporative Rate (Butyl Acetate=1): N/A
 Physical State: Solid
 Appearance and odor: Coated film, silver in color. Slight to no odor.

FIRE AND EXPLOSION DATA

Flash Point (°F): N/A (Not Applicable)
 Auto Ignition Temperature: N/A
 Flammability Limit: LEL: N/A UEL: N/A
 Extinguishing Media: Water, spray, and foam. Water is the best extinguishing medium.

Special Fire-Fighting Instructions: In a sustained fire, proper protection against products of combustion for the fuel and the sizing must be worn. Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.

Unusual Fire and Explosion Hazards:

Hazardous Combustion Products: May produce carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide and hydrocarbon fragments if burned.

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Land Spill: Material is solid. Pick up the larger pieces and wet sweep or vacuum up any scraps. Place in a suitable container for disposal as a non-hazardous waste.

Water Spill: This material will sink and disperse along the bottom of waterways and ponds. Large pieces should be removed and placed in a suitable container for disposal. Smaller pieces cannot be easily removed after it is waterborne; however, the material is non-hazardous in water.

Air Release: The material will settle out of the air where it can be cleaned as a land spill.

REACTIVITY DATA

Stability: stable

Conditions to Avoid: Heat, sparks, open flame

Incompatibility: Strong oxidizing agents

Incompatibility: Oxidizers, strong acids & bases, amines, ammonia, pyridines, potassium t-butoxide.

Hazardous Decomposition Products: May produce carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide and hydrocarbon fragments if burned.

Hazardous Polymerization: Will not occur.

HEALTH HAZARD INFORMATION

EMERGENCY OVERVIEW: No unusual conditions are expected from this product. Fiberglass may cause mechanical irritation to the skin, eye and upper respiratory tract.

Primary Routes of Entry:

Inhalation: Vapors from burning may be irritating to the respiratory tract or cause narcosis with symptoms of headache, dizziness and nausea; allergic-type sensitization may occur with inhalation, causing symptoms of wheezing and shortness of breath. Breathing dusts and fibers may cause short-term mechanical irritation of the nose, throat and respiratory tract.

Skin: Short contact with human skin is not likely to product skin irritation. Repeated prolonged contact can induce mild irritation. This product is not likely to be absorbed through human skin.

Eyes: May cause a physical irritation to the eye.

Ingestion: Although not likely to occur in industrial applications, accidental ingestion may cause irritation of the mouth and gastrointestinal tract.

Carcinogenicity: This product is not known as a carcinogen.

Medical Conditions General Aggravated by Exposure: Respiratory or skin conditions that are aggravated by mechanical irritants may be at an increased risk for worsening from exposure to this product.

NFPA HAZARD RATING

Health (acute): 0

Flammability: 1

Reactivity: 0

Unusual Hazards: None

*Personal protective equipment requirements must be supplied by the user depending upon use.

EXPOSURE CONTROL/ PERSONAL PROTECTION:

Exposure limits

COMMON NAME	OSHA PEL	ACGIH TLV
	8-hr TWA	8-hr TWA
Base Fabric	See appropriate MSDS	See appropriate MSDS
Resin (epoxy, acrylic, polyurethane or polyester)	NE	NE
Decabromodiphenyl Oxide	NE	NE
Antimony Trioxide	0.5 mg/m ³	0.5 mg/m ³

NE = Not established

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

PEL = Permissible Exposure Limits

TLV = Threshold Limit Value

VENTILATION: Use local exhaust or general room dilution to maintain employee exposures below occupational exposure limits.

SPECIAL: None

MECHANICAL: None

OTHER: None

RESPIRATORY PROTECTION: If the use or manufacturing of this product generates high dust levels, the level of glass fibers in the air exceeds the occupational exposure limits or if irritation occurs, use a properly fitted NIOSH.MSHA approved disposable respirator such as 3M model 8210 (or 3M model 8271 in high humidity environments). Always use a respirator in accordance with your company’s respiratory protection program, local regulations, and OSHA regulation 29CFR1910.134.

PROTECTIVE GLOVES: Not required, but gloves and barrier creams can be used to protect against mechanical irritation of the hands.

EYE PROTECTION: As generally good practice, safety glasses with side shields should be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required. Good personal hygiene, barrier creams, caps, coveralls, loose fitting long sleeve shirt that covers to the base of the neck and long pants will maximize comfort. Skin irritation is known to occur chiefly at pressure points such as around the neck, wrist, waist, and between fingers.

WORK HYGIENIC PRACTICES: Handle using good industrial hygiene and safety practices. Wash thoroughly with mild soap and cool water after handling of the material. Remove material from clothing using vacuum equipment (never used compressed air). Always wash work clothes separately from other clothing. Wipe out washer or sink to prevent loose glass fibers from getting on other clothing. Keep the work area clean of dusts and fibers released during processing or fabrication. Use vacuum equipment to clean up product. Avoid dry sweeping or using compressed air as these techniques re-suspend dusts and fibers into the air. Have access to a shower and eye wash station.

FIRST AID MEASURES

Inhalation: Move individual to fresh air. Seek medical attention if irritation persists.

Skin: Wash any material off skin with mild soap and cool water. Do not rub or scratch irritated areas. This may force fibers into the skin. Seek medical attention if irritation persists.

Eyes: Flush eyes with flowing water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Not expected to occur. Should ingestion take place, the person should be watched for several days to ensure intestinal blockage does not occur.

HANDLING AND STORAGE

Precautions to be taken in Handling: For maximum comfort, avoid excessive contact with the skin and use good personal hygiene.

Other Precautions: If excessive dust is generated, use a respirator approved by NIOSH for dust. This material is not an electric conductor and may accumulate static charge.

Storage Temperature and Pressure: N/A

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

DISPOSAL PROCEDURES

Disposal: Dispose in accordance with federal, state and local environmental control regulations. Dispose of as any other innocuous material. Product is not hazardous waste under RCRA 40 CFR 261.

TOXICOLOGICAL/ ECOLOGICAL INFORMATION

Carcinogenicity: The table below indicates whether or not each agency has listed each ingredient as a carcinogen.

INGREDIENT	ACGIH	IARC	LD5 (Oral Rat) ND
Decabromodiphenyl Oxide		2B	>2000 mg/kg
Antimony Oxide	A2	2B	>20,000 mg/kg

ACGIH: Classified A2 – Suspected for human carcinogen

IARC: Group 2B - Possible to Human Carcinogenicity

There are no known chronic health effects connected with long-term use or contact with this product.

ECOLOGICAL INFORMATION

This product is generally not considered to be an inert solid waste. This material is not expected to cause harm to animals, plants or fish. No special precautions are needed in case of a release or spill.

TRANSPORT INFORMATION

Not regulated. N/A

REGULATORY INFORMATION

TSCA STATUS: portions of this product may be listed on the TSCA inventory.

SARA TITLE III:

Hazard Categories:

Acute health: No

Chronic health: No

Fire Hazard: No

Pressure Hazard: No

Reactive Hazard: No

Reportable Ingredients:

Section 311/312: Portions of this product may be listed

Section 313: Portions of this product may be listed

CERCLA HAZARDOUS SUBSTANCE: not listed

CLEAN AIR ACT: No ingredients listed.

NSR STATUS (CANADA): Each ingredient is on the DSL (Domestic Substance List)

WHMIS (CANADA)

STATUS: Not controlled

WHMIS Classification(s): None

These products are considered articles, therefore are exempt from the following requirements:

USA: TSCA – Toxic Substances Control Act

EUROPE: EINECS – European Inventory of Existing Commercial Chemical Substances

CANADA: DSL – Domestic Substance List

AUSTRALIA: AICS – Australian Inventory of Chemical Substances

KOREA: ECL (KECI) – Korean Existing Chemical Inventory

JAPAN: MITI (ENCS) – Existing and New Chemical Substances

PHILIPPINES: PICCS – Philippines Inventory of Chemicals and Chemical Substances

DISCLAIMER

The information, details, dimensions and values indicated are to our best knowledge. We recommend testing according to local conditions. The specifications are subject to change without notice.