
SECTION I - PRODUCTION IDENTIFICATION

Z-SIL AR PRODUCTS**MANUFACTURER:**

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

SECTION II - INGREDIENTS

The above products are considered "articles" according to OSHA hazard Communication Standard 29 CFR 1910.1200 and, as such, are exempt from the Material Safety Data Sheet provisions of 29 CFR 1910.1200(G)(6). As a service to the customer, Newtex Industries 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.

<u>AS MANUFACTURED:</u>	<u>WT.%</u>	<u>TLV/PEL</u>
Silica Fibers		
SiO ₂	>94%	Not Listed
Al ₂ O ₃	5%	Not Listed
Amorphous Silica		ACGIH TLV : 10 mg/m ³
Total dust		ACGIH TLV : 10 mg/m ³ OSHA PEL : 15 mg/m ³
Respirable dust		OSHA PEL : 5 mg/m ³
Vermiculite Coating	<1%	Not Listed

There is not an established threshold limit value (TLV) that is directly applicable to Z-SIL Products. Chemically, Z-SIL Products are composed of amorphous silica with trace elements of aluminum, titanium and iron. The products are all continuous filament materials.

The individual filament sizes of the Z-SIL Products are nominally 6.0 microns, and are considered "non-respirable". Z-SIL will partially transform to a cristabolite structure when subjected to steady state temperatures above 1850°F. In the event that the Z-SIL Products are subjected to continuous temperatures exceeding 1850°F, appropriate caution should be exercised. SEE SECTION IX.

SECTION III - PHYSICAL DATA

BOILING POINT:	N/A	SPECIFIC GRAVITY RANGE (H ₂ O=1):	2.1
MELTING POINT:	N/A	PERCENT VOLATILE BY VOLUME:	N/A
VAPOR PRESSURE (mm Hg):	N/A	EVAPORATION RATE (Butyl Acetate=1):	N/A
VAPOR DENSITY (Air=1):	N/A	SOLUBILITY IN WATER:	Insoluble

APPEARANCE AND ODOR: Off-white yarns woven together into a fabric with no significant odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):	N/A		
FLAMMABLE LIMIT:	LEL: N/A	UEL: N/A	
UNUSUAL FIRE AND EXPLOSIVE HAZARDS:	None		
SPECIAL FIRE FIGHTING PROCEDURES:	None		
EXTINGUISHING MEDIA:	Will not burn		

SECTION V - HEALTH HAZARD DATA

ROUTES OF ENTRY:

Inhalation - No toxic effects are known to be associated with the inhalation of vapors from this material under normal conditions. Z-SIL Products are made of non-respirable fibers.

Skin - Short contact periods with human skin are not likely to produce skin irritation. Repeated or prolonged contact can induce mild irritation. This product is not likely to be absorbed through the skin.

Eyes - May cause a physical irritation to the eye.

CARCINOGENICITY: This product is not known as a carcinogen.

HEALTH HAZARDS (Acute & Chronic): None known

SIGNS AND SYMPTOMS OF EXPOSURE: Minor irritation

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Experimental studies have shown that chemically exfoliated vermiculite induces a lung response which is similar to that of mica exposure. After repeated, prolonged exposure to excessive concentrations of mica dust, some mica workers have developed an accumulation of dust in the lungs which is observed only by chest x-ray and is not considered hazardous to workers' health.

EMERGENCY FIRST AID PROCEDURES:

Skin - Wash any material off skin with soap and cool water. If redness, itching or burning sensation develops, seek medical attention.

Eyes - Flush with water for at least 15 minutes. If irritation develops, seek medical attention.

Ingestion - Not expected to occur.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: See INCOMPATIBILITY

INCOMPATIBILITY: Z-SIL Products are not compatible with the basic phosphates, hydrofluoric acids, some oxides and hydroxides; especially at elevated temperatures.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: In a sustained fire, the organic binders will decompose releasing minor quantities of decomposition products believed to be insufficient to be harmful.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID FOR HAZARDOUS POLYMERIZATION: None known

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Material is a solid. Pick up big pieces and sweep up any scrapes.

WASTE DISPOSAL METHOD: Dispose of as any other innocuous material. Discarded product is not a hazardous waste under RCRA 40 CFR 261.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: For maximum comfort, avoid excessive contact with skin and use good personal hygiene.

OTHER PRECAUTIONS: If excessive dust is generated, Use a respirator approved by MSHA or NIOSH for dust.

VIII – CONTROL MEASURES

RESPIRATOR PROTECTION (specify type): NIOSH type TC-21C-Safety Brochure dust respirator is recommended if significant dust is created in handling or processing and should be required if necessary to prevent exposure above limits for total and respirable dust.

VENTILATION:

LOCAL EXHAUST: Is not necessary. Use product in well ventilated areas.

SPECIAL: None

MECHANICAL: None

OTHER: None

PROTECTIVE GLOVES: Rubber or synthetic gloves are recommended when necessary to prevent prolonged or repeated skin contact

EYE PROTECTION: As good practice, safety glasses can be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required.

WORK HYGIENIC PRACTICES: Avoid excessive contact with skin. Wash thoroughly with soap and water after handling of the material.

IX - SPECIAL PROTECTION INFORMATION

Z-SIL Products will partially transform to a cristabolite structure when subjected to steady state temperatures above 1850°F. In the event that the Z-SIL Products are subjected to continuous temperatures exceeding 1850°F, appropriate caution should be exercised.

AFTER-SERVICE FIBERS/CRISTABOLITE**CONCENTRATION****RESPIRATOR**

Up to 5 fibers/cc or Up to 0.5 mg/m³
respirable cristabolite

Half-face, air-purifying respirator with high-efficiency particulate air (HEPA) filter cartridges

5-25 fibers/cc or 0.5-2.5 mg/m³ respirable
cristabolite

Full-face air-purifying respirator equipped with high-efficiency particulate air (HEPA) filter cartridges or powered air-purifying respirator (PAPR) equipped with HEPA filter cartridges

Greater than: 25 fibers/cc or 2.5 mg/m³
respirable cristabolite

Full-face positive pressure supplied air respirator

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