



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **TEXTRAFINE**
 Identity: Textrafine Blanket Insulation
 Description: Continuous Filament Fiber Blanket

SUPPLIER

Industries 3R inc.
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COMPOSITION/INFORMATION ON INGREDIENTS

SYNTHETIC CONTINUOUS FILAMENT FIBER GLASS: Long Strand Textile Fiber
 Component: Fibrous Glass CAS Number: 65997-17-3 Weight%: 70-90% by weight

STARCH BINDER, SIZING: Mixture of Starches

Component: Starch CAS Number: 9005-25-8 Weight%: 0-30% by weight

BINDER (TRADE SECRET): Phenol Formaldehyde Resin (P/F Resin)

Component: Phenol CAS Number: 108-95-2 Weight%: 0-30% combined by weight

Component: Formaldehyde CAS Number 50-00-0 Weight%: 0-30% combined by weight

*NOTE: See *Section Exposure Controls/Personal Protection* of MSDS for exposure limit data for these ingredients.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Vapor Density (Air = 1):	Not Applicable.
Boiling Point (°F):	>2550° F (glass)
Specific Gravity (H ₂ O = 1):	Glass: 2.6 binder: 1.20 – 1.30
Melting Point (°F):	2250° (glass)
% Volatile by Volume:	Not Volatile.
Softening Point (°F):	> 1200°F
Vapor Pressure:	N/A
Odor:	None
Evaporative Rate (Ethyl ether = 1):	Not Applicable.
Odor Threshold:	None
% Solubility (H ₂ O):	Slight
Color:	Amber
Freezing Point (°F):	None
pH:	Not Applicable

FIRE-FIGHTING MEASURES

Extinguishing Media:

CO₂, dry chemical, foam, and water fog extinguishing methods are suitable in the event of product combustion.

Hazardous Combustion Products: Fumes released during curing process may cause lung irritation and may contain small amounts of gaseous ammonia, phenol, formaldehyde, and water vapor. Carbon monoxide and carbon dioxide are evolved. Dust and fumes released during the curing process may cause eye irritation.

Personal Precautions: Use self-contained breathing apparatus (SCBA) and full bunker turn-out gear in event of sustained fire.

STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility (Materials to Avoid): Strong oxidizing agents.

Conditions to avoid: None known.

Hazardous Reactions: None known.

Incompatibility: Strong Oxidizing Agents.

EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>INGREDIENT</i>	<i>OSHA PEL</i> (8-hour TWA)	<i>ACGIH TLV</i> (8-hour TWA)
Continuous Filament Fiber:	15 mg/m ³	10 mg/m ³
Respirable particulate (PNOC):	5 mg/m ³	3 mg/m
Respirable particulate with fiber:	None Established	1 fiber/cc Aspect Ratio > 5:1
Sizing	None Established	None Established
Cured Binder Solids	None Established	None Established

PNOC = Particles Not Otherwise Classified
 NIOSH defines «respirable fibers» as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of greater than or equal to (≥) 5:1 (length-to-width ratio).

Engineering Controls: Local exhaust ventilation should be used during operations involving cutting and use of power tools.

Eye protection: Face shield, safety glasses with side shields, or goggles to prevent the possibility of serious irritation to the eyes.

Skin Protection: Recommended loose fitting, long-sleeved shirt that covers the base of the neck, long pants and gloves to prevent skin irritation. Skin irritation is known to occur chiefly around the neck, wrists, waste, and between fingers.

Respiratory Protection: Recommended respirator approved for nuisance dust to prevent sinus and respiratory irritation.

DISPOSAL CONSIDERATIONS

Disposal: Dispose of this product in accordance with local, state, and federal requirements.

HAZARDS IDENTIFICATION

Skin Irritation: Category 2
Eye Irritation: Category 2A
Respiratory Irritation: Category 3

WARNING:

Hazard Statement: Product may cause skin and respiratory irritation and serious eye irritation.

Precautionary Statements:

Prevention: Wash exposed areas thoroughly after handling. Wear protective gloves, dusk mask, and eye protection. Avoid breathing dust.

Response: If on skin, wash with plenty of water. Remove contaminated clothing and wash before reuse. If in eyes; rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. If eye irritation persists; seek medical attention. Remove to fresh air if respiratory irritation occurs.

Storage: N/A

Disposal: Dispose of in accordance with local/ regional/ international regulations.

FIRST AID MEASURES**Inhalation**

Move person to fresh air. Drink water to clear throat and blow nose to clear area. Seek medical attention if irritation persists.

Eye Contact

Do not rub or scratch eyes. Fibers in the eye may cause the eye to be scratched, and fibers may get imbedded. Flush eyes with large amounts of running water for 15 minutes, as necessary. Seek medical attention if irritation persists.

Skin Contact

Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch irritated areas. Seek medical attention if irritation persists.

Ingestion

Ingestion of this material is unlikely. If it does occur, seek medical attention. No chronic effects are expected following ingestion.

Information for Medical Practitioners

This product is not expected to produce any chronic health effects from acute exposure. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary. See *Section Exposure Controls/Personal Protection* for exposure limits and issues.

ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section *FIRST AID MEASURES*.

Protective Equipment: See Section *EXPOSURE CONTROLES/ PERSONAL PROTECTION*.

Emergency Procedures: Immediately clean the released material.

***Containment/ Clean-up:** Scoop up and place into suitable container as non-hazardous waste. Product may be easily vacuumed.

*This product is defined as non-hazardous by the Resource Conservation and Recovery Act (RCRA, 40 CFR 261).

HANDLING AND STORAGE

Handling: When handling it is recommended the user wear respirator, long sleeves, gloves and eye protection. (See section *EXPOSURE CONTROLES / PERSONAL PROTECTION*).

Storage: Recommended storage in a dry area, protected from the elements.

TRANSPORT INFORMATION/ TRANSPORTATION OF DANGEROUS GOODS-CANADA:

This product is not considered to be a human environmental health hazard. Therefore, this product is exempt from transportation restrictions and manifesting requirements set by the U.S. Department of TRANSPORTATION (DOT).

This product is defined as non-hazardous by the Resource Conservation and Recovery Act (RCRA, 40 CFR 261).

This product is exempt from Canadian Environmental Protection Act (CEPA) reporting on the Domestic Substances Lists as these products are considered «articles». Exempt from Workplace Hazardous Materials Information System (WHMIS) labeling and MSDS requirements. However, «fibrous glass» is on the Ingredient Disclosure List. It must be listed as an ingredient on MSDS for «controlled products» with fiber glass concentrations greater than 1.0%.

TOXICOLOGICAL / ECOLOGICAL INFORMATION

Carcinogenicity table:

This table indicates whether or not each agency has listed each ingredient as a carcinogen.

<u>Ingredient</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>	<u>97/69/EC</u>
Continuous Filament Fibers	NO	NO	NO	NO	NO
Cured Binder Solids	NO	NO	NO	NO	NO

NIOSH defines respirable fibers as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio greater than or equal to 5:1 (length to width ratio). The supplier specifically uses fibers with diameters ranging between 6 to 11 micrometers and are considered to be non-respirable. As with any mechanically abrasive activity, a very small amount of respirable dust/ particulate may be generated. Some of which may be glass shards.

This product is defined as non-hazardous by the Resource Conservation and Recovery Act (RCRA, 40, CFR 261).

REGULATORY INFORMATION

EPA TSCA Status: Each ingredient is on the Inventory.

NSR Status (Canada): Each ingredient is on the DSL.

SARA Title III: **Hazard Categories:**

Acute Health: Yes

Chronic Health: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Reportable Ingredients:

Sec. 302/304: None.

Sec. 313: None.

European Econ. Committee (EEC)

Labeling Classification: «Fiber Glass» does not meet the classification for a «dangerous substance» according to 67/548/EEC. The E-glass composition has been incorporated in the EINECS under NR. 65997-17-3 is a generic substance.

Japan: Chemical Substances Control Law: «Fiber Glass» is exempt from this law.

OSHA Hazard Communication Standard: Subject to the applicable requirements of this regulation. Per this MSDS revision date, these continuous filament fiber products are not known to contain chemical ingredients listed by the Pennsylvania, New Jersey or Massachusetts “Right to Know” Law in excess of amounts requiring reporting on such substances’ MSDS or labels.

SARA: Title III

Acute Health: Yes(Skin Irritant)

Chronic Health: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 302/304: None

Section 313: None

OTHER INFORMATION

HMIS and NFPA Hazard Rating:

<u>Category:</u>	<u>HMIS</u>	<u>NFPA</u>	<u>Degree of Hazard</u>
Acute Health:	1	1	0-Minimal
Flamability:	1	0	1-Slight
Reactivity:	0	0	2-Moderate
			3-Serious (High)
			4-Severe (Extreme)

NFPA Unusual Hazards: None.

HMIS Personnel Protection: To be supplied by user depending upon use.