

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Article

Product Name: Z-Tech FR Rayon Products

Synonyms: Regenerated cellulose textile 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

Chronic aquatic toxicity applicable to liquid form of FR coating.

2.2. Label Elements

GHS-US Labeling

H412 Harmful to aquatic life with long last effects, applicable to liquid form of FR coating.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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	%	GHS-US classification
Viscose Rayon	(CAS No) 68442-85-3		Not classified
Ethanol, 2,2',2''-nitriлотris	(CAS No) 102-71-9		3
Methylphosphonic acid, compound with amidinourea	(CAS No) 84402-58-4		3
Proprietary coating			3

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Do not leave the victim unattended.

First-aid Measures After Inhalation: In the case of respiratory irritation, move to fresh air. Consult a physician if symptoms persist.

First-aid Measures After Skin Contact: Wash immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Consult a physician if irritation develops and persists.

First-aid Measures After Eye Contact: In case of contact with airborne fibers released from used material, immediately wash eyes with large amounts of water for 15 minutes. If irritation persists, seek medical attention.

First-aid Measures After Ingestion: Seek medical attention immediately. If gastrointestinal irritation or other symptoms such as nausea, vomiting, abdominal pain or diarrhea is experienced, get medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: No action shall be taken involving any personal risk or without suitable training.

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Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours. For specialist advice, physicians should contact Poisons Information Service.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Foam, CO₂ and extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Fiber/air mixtures may be explosive within certain concentration limits and sufficiently high ignition energies.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Wear full fire fighting protective equipment including self-contained breathing apparatus.

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

Hazardous Combustion Products: CO₂, CO, NO_x, Phosphorus oxides

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. A dust mask and goggles are recommended to prevent possible irritation from airborne fibers. Cleansing the skin after handling is advisable.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

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

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Vacuum or sweep up and place in a standard disposal container. Avoid the use of air jets if possible, to prevent fibers from becoming airborne.

Methods for Cleaning Up: Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust.

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

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Do not store near strong oxidizing agents or in direct sunlight. Storage area must be dry.

Incompatible Materials: None known.

7.3. Specific End Use(s)

No use is specified

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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).

Ethanol, 2,2',2''-nitrotris- (CAS No 102-7166)		
USA ACGIH	ACGIH TLV (TWA) (mg/m ³)	5 mg/m ³
Fiber Dust		
USA ACGIH	ACGIH TLV (TWA) (mg/m ³)	10 mg/m ³ total dust; 3 mg/m ³ respirable dust
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ total dust; 5 mg/m ³ respirable dust

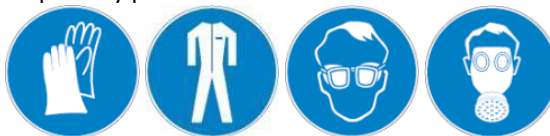
8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear protective gloves.

Eye and Face Protection

: Not necessary under normal working conditions.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: Some application of these products may not require respiratory protection. However, if airborne fiber concentrations exceed OSHA permissible limits or if irritation occurs, a properly fitted NIOSH/MSHA approved disposable dust respirator should be used.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White or or off-white fibers
Odor	: Slight sulfuric odor
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: Not applicable
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: 752 °F / 400 °C
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: No data available
Solubility	: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

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9.2. Other Information No additional information available

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 (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal conditions.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. **Incompatible Materials:** None known.
- 10.6. **Hazardous Decomposition Products:** Thermal decomposition may be hazardous and may include CO₂, CO, NO_x, and Phosphorus oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity:

Applicable to liquid form of FR coating:

Acute oral toxicity LD50 (Rat): > 2000 mg/kg

Acute dermal toxicity > 5000 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

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: Dust may be harmful or cause irritation, coughing, sneezing, and itching.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation, itching and redness.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion of large amounts of fibers may cause gastrointestinal blockage, which can cause stomach distress.

Chronic Symptoms: Some individuals, i.e. with asthma, bronchitis, or allergies, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

FR Coating

Toxicity to fish LC0: 1000 mg/l, exposure time 48 h

LC50: 1000 mg/l, exposure time 48 h

Toxicity to daphnia and other aquatic invertebrates

EC50: 700 mg/l, exposure time 48 h

EC0: 500 mg/l, exposure time 48 h

Ethanol, 2,2',2''-nitrilotris

Toxicity to algae ErC50: 512 mg/l, exposure time 72 h

Toxicity to daphnia and other aquatic invertebrates

NOEC: 16 mg/l, exposure time 21 d

Toxicity to bacteria IC50: >300 mg/l, exposure time 3 h

Methylphosphoric acid, compound with amidinourea

Toxicity to algae EC50: 47.5 mg/l, exposure time 96 h

12.2. Persistence and Degradability

Being a cellulosic fiber, viscose fibers are biodegradable under conditions which encourage the growth of microorganisms.

FR Coating

Biodegradability: biodegradation 25-50%, exposure time 28 d

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12.3. Bioaccumulative Potential

Ethanol, 2,2',2''-nitrilotris

Bioaccumulation: Cyprinus carpio BCF < 3.9, exposure time 42 d

12.4. Mobility in Soil

No additional information available

Ethanol, 2,2',2''-nitrilotris

Distribution among environmental compartments Koc: 18

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 of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This product should not be allowed to enter drains, water courses or soil.

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

All components of this product are listed on the TSCA inventory.

15.2. US State Regulations

Pennsylvania Right to Know

Water 7732-18-5

Methylphosphoric acid, compound with amidinourea 84402-58-4

California Prop 65

Ethanol, 2,2'-iminobis 111-42-2

15.2. International Regulations

All components of this product are listed on the Canadian Non-Domestic Substance List.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 7/10/2018

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

The information herein is given in good faith, but no warranty, expressed or implied is made and we assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

SDS US (GHS HazCom)