

### 1. Identification

**Product Name:** Thunderon® Anti-Static Acrylic Fibers ACCON  
**Synonyms:** Copper Sulfide-Coated Acrylic, Polyacrylonitrile  
**Manufacturer:** MiniFibers Inc.; 2923 Boones Creek Road; Johnson City, TN 37615 USA  
**Telephone:** Information: (423) 282-4242 Emergency: (423) 282-4242  
**Date Prepared:** November 2011

HMIS		
HEALTH	1	1
FLAMMABILITY	1	
PHYSICAL HAZARD	0	
PERSONAL PROTECTION	E	

### 2. Hazard Identification

This product is not hazardous under the criteria of U.S. Occupational Safety and Health Standard 29 CFR 1910 Subpart Z and United Nations GHS Parts 2, 3, and 4.

### 3. Composition / Information on Ingredients

Substance	CAS No.	EC No.	Concentration By Weight
Acrylic	9004-34-6	232-674-9	96.5%
Copper Sulfide	11115-78-9	-	3.5%

### 4. Emergency & First Aid Measures

#### Routes of Exposure:

- Inhalation:** Inhalation of fibers or fiber dust may cause respiratory irritation. Move to fresh air if effects occur. Consult a physician if persistent coughing or other symptoms develop.
- Skin:** **If thermal burn, cool with water and seek immediate medical attention; do not attempt to peel fibers from skin.** Non-thermal contact with fibers may cause mechanical irritation of the skin. **Do not brush off with hands;** wash off with soap and water, and consult a physician if symptoms develop.
- Skin Absorption:** A single prolonged skin exposure is not likely to result in the material being absorbed through the skin in harmful amounts.
- Eyes:** Fibers or fiber dust may cause irritation or scratch the surface of the eyes. Flush with water for at least 15 minutes to remove particles; remove contact lenses if present part eyelids with fingers to ensure complete flushing. Seek medical attention immediately.
- Ingestion:** LD50 (oral)(rat) >5000 mg/kg as Thunderon

Contaminated clothing does not need to be removed.

Personal protective equipment is not required for first-aid responders.

### 5. Fire Fighting Measures / Fire & Explosion Hazard Data

- Flash Point:** No data available
- Flammable Limits:** Not determined
- Extinguishing Media:** Water, CO<sub>2</sub>, dry chemicals, foam, fog.
- Hazardous Combustion Products:** May include, but are not limited to, CO and CO<sub>2</sub>, copper oxide, sulfur oxide, nitrogen oxide, and cyanogens.
- Unusual Fire & Explosion Hazards:** A dangerous gas may be generated when the fiber is burned.
- Special Fire Fighting Procedures:** Avoid excessive inhalation of smoke or potential thermal decomposition products. Keep product cool by spraying with water. If outdoors, fight fire from an upwind position.
- Special Protective Equipment:** Due to potential decomposition of the polymer, firefighters should be equipped with positive pressure self-contained breathing apparatus (SCBA) and standard protective fire fighting clothing (helmet, eye protection, overalls, boots, and gloves) when fighting all indoor fires and any significant outdoor fires.



### 6. Accidental Release Measures / Steps to be Taken if Material is Released or Spilled

- Personal Precautions:** None needed.
- Environmental Precautions:** None needed.
- Methods for Cleanup:** Vacuum or sweep up and place in a standard disposal container. Avoid the use of air jets.

### 7. Precautions for Safe Handling & Storage

- Precautions for Safe Handling:** No special handling has been shown to be necessary.
- Conditions for Safe Storage:** Avoid overstacking to prevent collapse or breakage of the package. Store in a cool, dry place. Do not store near flame, electric power sources, or high-temperature materials, or in a humid environment.
- Other Precautions:** Do not irradiate with microwaves. The product can be conductive. Avoid using electric power sources or sparks around the fiber.

### 8. Exposure Control Measures / Personal Protection

- Exposure Guidelines:** Fiber dust should be considered a nuisance dust, i.e. particulates (not otherwise classified):  
 ACGIH Threshold Limit Value: 10 mg/m<sup>3</sup> total dust; 3-mg/m<sup>3</sup> respirable dust  
 OSHA Permissible Exposure Limit: 15 mg/m<sup>3</sup> total dust; 5-mg/m<sup>3</sup> respirable dust
- Engineering Controls:** Local exhaust recommended to reduce exposure to fiber dust. Safety showers and eyewash fountains should be located near work area. Provide adequate ventilation.
- Specific Personal Protective Equipment:**
- Respiratory:** For operations where inhalation exposure can occur, a NIOSH approved dust mask/respirator is recommended.
- Eye:** For operations where eye contact can occur, eye protection such as goggles or safety glasses is recommended.

# Material Safety Data Sheet

<b>Hand:</b>	glasses is recommended. For operations where skin contact can occur, protective gloves are recommended. Wash thoroughly after handling and before eating, drinking, or smoking.
<b>Skin/Other:</b>	For operations where skin contact can occur, protective clothing is recommended.
<b>Work/Hygienic Practices:</b>	Maintain good housekeeping to control dust accumulations. Avoid the use of air jets to blow off equipment; use vacuums instead.

## 9. Physical & Chemical Properties / Characteristics

<b>Chemical Formula:</b>	Proprietary	<b>Flash Point:</b>	No data available	<b>Solubility:</b>	Not soluble
<b>Appearance:</b>	Grey/green solid	<b>Evaporation Rate:</b>	Does not apply	<b>Partition Coefficient:</b>	No data available
<b>Odor:</b>	No odor	<b>Flammability:</b>	Non-flammable	<b>Auto-Ignition Temp:</b>	>515°C
<b>pH:</b>	No data available	<b>Vapor Pressure:</b>	Does not apply	<b>Decomposition Temp:</b>	No data available
<b>Melting Point:</b>	Does not melt	<b>Vapor Density:</b>	Does not apply	<b>Viscosity:</b>	Does not apply
<b>Boiling Point:</b>	Does not apply	<b>Specific Gravity:</b>	1.18-1.22 g/cm <sup>3</sup>		

## 10. Stability & Reactivity Data

<b>Reactivity:</b>	Data not available.
<b>Stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Contact with electrical power sources; temperatures above 300°C.
<b>Incompatible Materials:</b>	Tends to decompose in strong acids and bases.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition products may include CO, ethylene glycol, and other C, H, and O compounds varying in chemical structure and molecular weight.

## 11. Toxicological Information / Health Hazard Data

<b>Health Hazards (Acute and Chronic):</b>	No data available.
<b>Carcinogenicity:</b>	
<b>NTP:</b>	Not listed.
<b>IARC:</b>	3 - Not classifiable as to its carcinogenicity to humans.
<b>OSHA:</b>	Not regulated.
<b>Signs and Symptoms of Exposure:</b>	No data available.
<b>Medical Conditions Aggravated by Exposure:</b>	Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

## 12. Ecological Information

<b>Toxicity:</b>	No data available.
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Dispose of in accordance with all applicable governmental regulations for non-hazardous solid waste. Disposal via septic or sewage systems is not recommended. Recycling of corrugated packaging is encouraged where possible. Other packaging may be disposed of with product. Standard disposal containers are acceptable.
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## 14. Transport Information

<b>Proper Shipping Name:</b>	Acrylic Staple Fiber	<b>U.S. DOT:</b>	Not regulated.
<b>U.S. NMFC Item Number:</b>	68310	<b>ICAO/IATA:</b>	Not regulated.
<b>HTC Number:</b>	5503.30	<b>IMDG:</b>	Not regulated.
<b>U.N. Number:</b>	None	<b>Canada TDG:</b>	Not regulated.

## 15. Regulatory Information

<b>International:</b>		<b>Federal (U.S.):</b>	
Canada: DSL/NDSL: Included on the Canadian Domestic Substance List.		EPA: Not regulated.	
Canada: WHMIS: Not a controlled product.		OSHA: Not hazardous under the criteria of Occupational Safety and Health Standard 29 CFR 1910 Subpart Z.	
Europe: Not classified as dangerous according to Directive 1999/45/EC.		<b>State:</b>	
UN: Does not appear on the Dangerous Goods List.		CA: Proposition 65: Does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.	

## 16. Other Information

This MSDS has been prepared in compliance with United States OSHA Hazard Communication Standard 29 CFR 1910.1200 and the United Nations Globally Harmonized System for the Classification and Labeling of Chemicals.

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.