Product Name	Minifibers Para-Aramid Fiber		
Revision Number	1 Revision Date 18 October, 2022		
		Issue Date	01 May 2019

SECTION 1. IDENTIFICATION

Product Name	Minifibers Para-Aramid Fiber
Product Code	PASTD
Synonyms	p-aramide, 1,4-Benzenedicarbonyl dichloride, polymer with 1,4-benzenediamine, poly(terephthaloylchloride/P-phenylenediamine)

Recommended Use	Uses for fiber vary
Restrictions on Use	None known

COMPANY IDENTIFICATION

MiniFIBERS, Inc. 2923 Boones Creek Rd Johnson City, TN 37615 (423) 282-4242

TRANSPORTATION EMERGENCY PHONE NUMBERS

423-282-4242

SECTION 2. HAZARD IDENTIFICATION

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910.1200

Combustible Dust

LABEL ELEMENTS

Signal Word	Warning
Hazard Statement(s)	May form combustible dust concentrations in air
Precautionary Statement(s)	Prevent dust accumulation to minimize explosion hazard. Material can accumulate static charges which may cause ignition. Keep away from heat/sparks/open flames/hot surfaces. Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practices
Pictogram	No pictogram

OTHER HAZARDS

Hazard Not Otherwise Classified (HNOC): None as defined under Federal OSHA Hazard Communication Standard (29CFR 1910.1200)

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS#	Concentration (%w/w)
Poly(terephthaloylchloride/P-phenylenediamine)	p-aramid	26125-61-1	>93%
Water, Spin Finish oil		*	<7%

NOTES

Fiber article

SECTION 4. FIRST AID MEASURES

GENERAL INFORMATION

No hazards which require special first aid measures

Inhalation	Move to fresh air. If symptoms persist, contact physician.	
Skin contact	Wash off with soap and water.	
Skiii contact	If symptoms persist, contact physician.	
Eva contect	In case of contact with eyes, remove contact lens if present,	
Eye contact	rinse immediately with plenty of water and seek medical advice.	
Ingestion	Wash out mouth with water. Seek medical attention	
Most important symptoms and	Dust may irritate the respiratory tract, skin and eyes. May cause	
effects (acute and delayed)	allergic skin disorders in sensitive individuals.	
Note to physician	Treat symptomatically	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Water fog. Dry chemical. Foam. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dusts.
Unsuitable extinguishing media	Do not use water jet as an extinguisher
Specific hazards during fire fighting	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in presence of an ignition source is a potential dust explosion hazard.
Hazardous combustion products	May consist of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, ammonia, aldehyde gases
Further information	Minimize dust generation and accumulation
Special protective equipment	Wear approved positive pressure self-contained breathing apparatus (SCBA) in addition to standard firefighting gear

^{*} spin finish oil not disclosed by supplier

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, emergency procedures	Keep unnecessary personnel away. Use only non-sparking tools. Dust deposits should not be allowed on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Dust mask and goggles are recommended to prevent possible irritation from airborne fibers.
Environmental precautions	Avoid releases to the environment
Methods and materials for containment and clean-up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Vacuum or sweep up and place in a standard disposal container. Minimize dust generation.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Minimize dust generation and accumulation. Keep away from heat and sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity when subjected to friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Advice on safe handling	Wash thoroughly after handling Use only in areas provided with ventilation Minimize dust generation and accumulation
Conditions for safe storage	Keep containers tightly closed in a dry, cool, and well-ventilated space. Do not store near highly flammable materials; avoid proximity or contact with flames or sparks. Keep away from direct sunlight.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS

US OSHA PEL	Type	Value	Form
Dust	TWA	15 mg/m3	Inhalable particles
Dust	TWA	5 mg/m3	Respirable particles
ACGIH	Type	Value	Form
Dust	TWA	10 mg/m3	Inhalable particles
ACGIH TLV	Type	Value	Form
Dust	TWA	3 mg/m3	Respirable particles

Engineering Measures	Good general ventilation should be used. Ventilation rates should match to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Maintain airborne levels to acceptable level.
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PERSONAL PROTECTIVE EQUIPMENT

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Respiratory protection	If engineering controls do not maintain airborne concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in			
	accordance with regulatory requirements, if applicable.			
Eye protection	Wear safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear goggles.			
Hand protection	No special requirements			
Skin and body protection	Wear suitable protective clothing			
Protective measures	Ensure eye flushing systems and safety showers are located close to the working spaces.			
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Practice good housekeeping.			

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES BASED ON SUPPLIER SDS OR OTHER KNOWLEDGE

Appearance	Bright yellow or green fibers	
Odor	No significant odor	
Odor threshold	No data available	
pH	Not applicable	
Melting point/range	Does not melt	
Flash point	Not applicable	
Evaporation rate	Not applicable	
Flammability (solid, gas)	May form combustible dust concentrations in air	
Traininaomity (sond, gas)	during processing, handling or other means	
Upper flammability/upper explosion limit	Not applicable	
Lower flammability/lower explosion limit	Not applicable	
Vapor pressure	Not applicable	
Relative vapor density (air = 1)	Not applicable	
Relative density g/cm^3 (water = 1)	1.45	
Water solubility	insoluble	
Partition coefficient: n-octanol/water	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	>300°C / 900°F	
Viscosity	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	

^{*}No testing has been performed on the material. Data obtained from supplier datasheets or other available data.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	This product is stable and non-reactive under normal conditions of use, storage, and transportation.
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use
Conditions to avoid	Minimize dust generation and accumulation Avoid hot surfaces, sparks, open flames, other ignition sources. Temperatures >400°C
Incompatible materials	Strong acids and bases
Hazardous decomposition products	For hazardous combustion products see Section 5

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SECTION 11. TOXICOLOGY INFORMATION

PROPERTIES BASED ON SUPPLIER SDS OR OTHER KNOWLEDGE

INFORMATION ON LIKELY ROUTES OF EXPOSURE

Product	
Inhalation	Remarks: Fibers or fiber dust may irritate respiratory system
Skin contact	Remarks: Dust or powder may irritate the skin
Eye contact	Remarks: Fibers or fiber dust may irritate eyes
Ingestion	Remarks: No specific data

ACUTE TOXICITY

Acute oral toxicity	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking of swallowed.	
Acute inhalation toxicity	No adverse effects are anticipated from single exposure to dust.	
Acute dermal toxicity	No adverse effects anticipated from skin absorption.	

SKIN CORROSION/IRRITATION

Remarks	Prolonged skin contact may cause temporary irritation

SERIOUS EYE DAMAGE/EYE IRRITATION

RESPIRATORY SENSITIZATION

Remarks	No data available	
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SKIN SENSITIZATION

Remarks	No data available
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STOT (SINGLE EXPOSURE)

Remarks No data available

STOT (REPEAT EXPOSURE)

Remarks	No data available
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ASPIRATION TOXICITY

Remarks	No data available	
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CARCINOGENICITY

Remarks	
IARC	3 – Fiber not classified as carcinogen to humans.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens
NTP	No ingredient on this product present at levels greater than or equal to 0.01% is identified as a known or anticipated carcinogen by NTP

REPRODUCTIVE TOXICITY

Remarks No relevant of	lata found
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MUTAGENICITY

Remarks	No relevant data found
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

GENERAL INFORMATION

No known evidence of adverse effects on the environment.

ECOTOXICITY

No data available

PERSISTENCE AND DEGRADABILITY

Not inherently biodegradable

BIOACCUMULATIVE POTENTIAL

No data available

MOBILITY IN SOIL

Product is insoluable in water

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Waste from residues	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Dispose of in accordance with federal, state, and local regulations. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.
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SECTION 14. TRANSPORTATION INFORMATION

DOT	Not regulated as a dangerous good
IMO-IMDG	Not regulated as a dangerous good
Transport in bulk according	
to Annex II of MARPOL	Note: Consult IMO regulations before transporting ocean bulk
73/78 and the IBC Code	
ICAO/IATA	Not regulated as a dangerous good

This information is not intended to convey all specific regulator or operational requirements/information related to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15. REGULATORY INFORMATION

U.S. AND INTERNATIONAL REGULATIONS FOR THIS SECTION TO BE BASED ON SUPPLIER SDS OF THE FIBER

U.S. STATE REGULATIONS

Regulation California Safe	No chemicals known to the State of California to cause cancer or
Drinking Water and Toxic	reproductive toxicity are present in this fiber. For more information
Enforcement Act of 1986	go to www.P65Warnings.ca.gov
(Proposition 65):	

U.S. FEDERAL REGULATIONS

20 CFR 1910.1200	This product is an article and, as such, is not subject to the OSHA Hazard Communication Standard.			
TSCA	This product is considered an article and is not subject to TSCA requirements			
	All components of this product are in compliance with the			
	inventory listing requirements of the U.S			
SARA 302	Not listed			
Extremely hazardous				
substance				
SARA 311/312 Hazardous	Yes			
chemical	Classified hazard categories: Combustible dust			
SARA 313	This product does not contain any components with known CAS			
(TRI Reporting)	numbers that exceed the threshold (De Minimis) reporting levels			
	established by SARA Title III, Section 313.			

INTERNATIONAL REGULATIONS

REALH	According to Article 3(3) fibers can be defined as articles not requiring registration
Canada DSL/NDSL	All components are listed or exempt

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HTS CODE:

Commodity: Polyamide Staple Fibers

HTS Code Number: 5503.11 NMFC Item Number: 68310

SECTION 16. OTHER INFORMATION

OTHER INFORMATION

Refer to NFPA 654. Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

FULL TEXT OF OTHER ABBREVIATIONS

Add any additional abbreviations and text to table based on content

DOT	US Department of Transportation		
DSL/NDSL	Domestic Substance List/Non-Domestic Substance List		
GHS	Global Harmonized System		
HTS	Harmonized Tariff Schedule		
IARC	International Agency for the Research of Cancer		
IATA	International Air Transport Association		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
MARPOL	International Convention for the Prevention of Pollution from Ships		
NTP	National Toxicology Program		
OSHA	US Safety and Health Act		
REACH	Regulation (ECO) No 1907/2006 of the European Parliament and the Council covering the Registration, Evaluation, Authorization and Restriction of Chemicals		
SARA	Superfund Amendment and Reauthorization Act		
SDS	Safety Data Sheet		
STOT	Specific Target Organ Toxicity		
TSCA	US Toxic Substance Control Act		

REVISION DATE

10-18-2022

INFORMATION SOURCE AND REFERENCES

This SDS is based on information provided by suppliers and internal references within our company.

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Information related to REACH and articles: ECHA. (2017). Guidance on requirements for substances in articles. Version 4. <u>Link</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered warranty or quality specification. The information relates only to the specified material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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