ASP Technology

4595 East Tech Drive Cincinnati, OH 45245-1055 TEL: 513-688-3200 FAX: 513-672-9996 sales@braider.com www.braider.com

V81M250X

Raw Material:	BIAS: Kevlar 49 1420 Denier Type 965 (Merge 1G552) 0.85 TPI	(DuPont)
Diameter:	2.50"	
Braid Angle:	+/- 45°	
Braid Yield:	23.2 ft/lb	
Areal Weight:	322 GSM	
Layer Thickness:	0.018 in (50% Fiber Volume)	

Sharx[®] Braided Biaxial Sleevings

A&P Technology is the exclusive manufacturer of Sharx[®] brand braided reinforcement. Sharx[®] braided sleevings easily and repeatedly conform to the shape of products with changing geometries.

For more information please visit www.braider.com, or contact a sales representative at 513-688-3200

All technical information and data contained herein is believed accurate and reliable. However, the accuracy and completeness of this information is not guaranteed and is subject to change without notice. A&P Technology shall not be liable for injury, loss or damage whether direct or consequential arising out of the use of the data provided herein.

Safety Data Sheet

KEVLAR[®] Para-aramid

Version 4.0

Revision Date 11/18/2015

Ref. 15000002634

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Tradename/Synonym	:	KEVLAR [®] Para-aramid formerly MSDS# SP1889
Product Grade/Type	:	Yarn, Staple, Floc, Fabric
Product Use	•	Fiber manufacturing, For industrial use only.
Restrictions on use Manufacturer/Supplier	:	Do not use product for anything outside of the above specified uses DuPont 974 Centre Road Wilmington, DE 19805, USA
Product Information Medical Emergency Transport Emergency	: : :	1-800-931-3456 1-800-441-3637 (outside the U.S. 1-302-774-1139) CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Combustible dust

Label content Pictogram	: not required
Signal word	: Warning

Hazardous warnings : May form combustible dust concentrations in air.

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Hazardous prevention : not required measures

Other hazards

The hazards of this product are associated mainly with its processing., If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Para-aramid fiber	26125-61-1	>85%

SECTION 4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. If symptoms persist, call a physician. If irritation occurs, flush area thoroughly with water.
Inhalation	: No applicable data available.
Skin contact	: No applicable data available.
Eye contact	: No applicable data available.
Ingestion	No applicable data available.
Most important	No applicable data available.
symptoms/effects, acute	
and delayed	
Protection of first-aiders	: No applicable data available.
Notes to physician	No applicable data available.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media	uishing : No applicable data available.		
Specific hazards	Hazardous decomposition products formed under fire conditions.		
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.		
Further information	No applicable data available.		
SECTION 6. ACCIDENTAL RELE	E MEASURES		
	MEASURES and HANDLING (PERSONNEL) sections before proceeding with clear DTECTIVE EQUIPMENT during clean-up.	an-up.	
Safeguards (Personnel)	None.		
Environmental precautions	Do not let product enter drains.		
Spill Cleanup	Avoid dust formation. Clean up dusts and fibres with high efficiency particulate air (HEPA) filtered vacuum equipment, or by wet cleaning.		
Accidental Release Measures	No applicable data available.		
SECTION 7. HANDLING AND STO	AGE		
Handling (Personnel)	Avoid dust formation. Exposure to fibre fly, dust and decomposition products of spinfinishes should be avoided by ventilation and/or vacuum cleaning. High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing. Continual rubbing of fibre particulates and dust on the skin can cause a transitory, mild irritation with redness or itching. Do not touch moving threadlines. Entanglement with this fibre can severely cut or even sever fingers. Avoid breathing dust.		
Handling (Physical Aspects) Dust explosion class Storage	No applicable data available. No applicable data available. Keep away from direct sunlight.		
Storage period	No applicable data available.		
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Storage temperature	: No applicable data available.
CTION 8. EXPOSURE CON	TROLS/PERSONAL PROTECTION
Engineering controls	Ensure adequate ventilation. Recirculated air should be filtered to remove respirable dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Static charges can cause explosions in solvent and dust laden atmospheres. Provide grounding of equipment to prevent static build-up.
Personal protective equipm	ent
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Eye protection	: Safety glasses with side-shields
Exposure Guidelines Exposure Limit Values	
Para-aramid	
AEL * AEL *	(DUPONT) 2 RFP/cc 8 & 12 hr. TWA Respirable fibers. (DUPONT) 5 mg/m3 8 & 12 hr. TWA Non-fibrous particulate and/or non-respirable fibres.
	table Exposure Limit. Where governmentally imposed occupational exposure limits which ar effect, such limits shall take precedence.
ECTION 9. PHYSICAL AND	CHEMICAL PROPERTIES
Appearance	
Physical state Form	: solid : Nonwoven fabric, woven fabric, fibres, yarn
Color	: natural, various
Odor	: odourless
Odor threshold	: No applicable data available.
рН	: No applicable data available.
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Melting point/freezing point	:	Melting point/range Not applicable
Boiling point/boiling range	:	Boiling point/boiling range Not applicable
Flash point	:	Not applicable
Evaporation rate	:	No applicable data available.
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Upper explosion limit	:	No applicable data available.
Lower explosion limit	:	No applicable data available.
Vapour Pressure	:	No applicable data available.
Vapour density	:	No applicable data available.
Specific gravity (Relative density)	:	1.44 - 1.45 at 20 °C (68 °F)
Water solubility	:	insoluble
Solubility(ies)	:	No applicable data available.
Partition coefficient: n- octanol/water	:	No applicable data available.
Auto-ignition temperature	:	No applicable data available.
Ignition temperature	:	does not ignite
Decomposition temperature	:	> 300 °C
Viscosity, kinematic	:	No applicable data available.
Viscosity, dynamic	:	No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

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Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	 No applicable data available. No applicable data available. No applicable data available. No applicable data available. Strong acids and strong bases Hazardous thermal decomposition products:: Carbon dioxide Nitrogen oxides (NOx), Hydrogen cyanide (gaseous), Ammonia, anhydrous Aldehydes, Hydrocarbons 	
SECTION 11. TOXICOLOGICAL	NFORMATION	
KEVLAR [®] Para-aramid		
Sensitisation	 Patch test on human volunteers did not demonstrate sensitisation properties. 	
Further information	 Effects of breathing high concentration of respirable particles may include: Risk of serious damage to the lungs (by inhalation). 	
Para-aramid fiber Inhalation	: Rat An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.	
Dermal	: The substance is a polymer and is not expected to produce toxic effects.	
Oral LD50	: > 7,500 mg/kg , Rat	
Skin irritation	: No skin irritation, Guinea pig	
Repeated dose toxicit	y : Inhalation Rat	
	Respiratory irritation	
Carcinogenicity	 Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic. 	
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.	
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QU POND.

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	Evidence suggests this substance does not cause genetic damage in animals.
to HazCom 2012, Apper Program (NTP) Report of International Agency for	sifications for this product and/or its ingredients have been determined according ndix A.6. The classifications may differ from those listed in the National Toxicology on Carcinogens (latest edition) or those found to be a potential carcinogen in the Research on Cancer (IARC) Monographs (latest edition). a present in this material at concentrations equal to or greater than 0.1% are listed by a carcinogen.
SECTION 12. ECOLOGICAL INFO	
SECTION 13. DISPOSAL CONSIL	
Waste disposal methods - Product	 Can be landfilled or incinerated, when in compliance with local regulations. Do not flush into surface water or sanitary sewer system.
Contaminated packaging	: No applicable data available.
SECTION 14. TRANSPORT INFO	RMATION
Not classified as dangerous ir	the meaning of transport regulations.
SECTION 15. REGULATORY INF	ORMATION
TSCA (US) Status SARA 313 Regulated Chemical(s)	 On the inventory, or in compliance with the inventory This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established
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	by SARA Title III, Section 313.
SECTION 16. OTHER INFORMA	TION
Restrictions for use	Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.
The DuPont Oval Logo is a r	ional information be requested if an unusual application of synthetic fibres is intended. egistered trademark of E.I. du Pont de Nemours and Company. . I. du Pont de Nemours and Company. mark of DuPont.
Revision Date	: 11/18/2015
Contact person	: SDS Coordinator
date of its publication. The ir transportation, disposal and relates only to the specific m	this Safety Data Sheet is correct to the best of our knowledge, information and belief at the iformation given is designed only as a guidance for safe handling, use, processing, storage, release and is not to be considered a warranty or quality specification. The information aterial designated and may not be valid for such material used in combination with any cess, unless specified in the text.
Significant change from prev	ious version is denoted with a double bar.
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The DuPont Oval Logo is a registered tradema	DuPont 974 Centre Road, Wilmington, DE 19805, USA	Refer to Safety Data Sheet (SDS) for further information.	Warning Hazard statements: May form combustible dust concentrations in air. Supplemental information: The hazards of this product are associate handling or by other means, may form combustible dust concentration	Components: Para-aramid fiber, CAS No. 26125-61-1	OU PONT.
Report version: 4.0 11/18/2015 Ref. 15000002634 LBL_US_GHS The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company. Kevlar [®] is a registered trademark of DuPont.	Product Information: 1-800-931-3456 Medical Emergency: 1-800-441-3637 (outside the U.S. 1- Transport Emergency: CHEMTREC: +1-800-424-9300 (c	r further information.	Warning Hazard statements: May form combustible dust concentrations in air. Supplemental information: The hazards of this product are associated mainly with its processing. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.	NS No. 26125-61-1	KEVLAR [®] Para-aramid