



**KEVLAR® brand engineered elastomer**

Version 2.1

Revision Date 08/20/2008

Ref. 15000002646

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 : KEVLAR® brand engineered elastomer  
 Product Grade/Type : Merge 1F722 (Natural Rubber);Merge 1F723 and 1F1234 (Neoprene GW);Merge 1F724 (Styrene Butadiene Rubber);Merge 1F735 and 1F1168 (Neoprene GRT);Merge 1F770 (Acrylonitrile Butadiene Rubber);Merge 1F819 (Neoprene WRT);Merge 1F1598 (Modified Hydrogenated Acrylonitrile Butadiene Rubber)Merge 1K1239 (ENGAGE® 8400)Merge 1K1034 (Elvax® EVA Resin)  
 Tradename/Synonym : formerly MSDS# SP6018  
 MSDS Number : 15000002646  
 Manufacturer : DuPont  
 1007 Market Street  
 Wilmington, DE 19898  
 Product Information : 1-800-931-3456  
 Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
 Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

Emergency Overview

No hazards resulting from the material as supplied. The hazards of this product are associated mainly with its processing. Processing para-aramid products can release respirable dust and respirable fibre particulate. Prolonged inhalation of respirable dust and respirable fibre particulate at high concentrations can cause lung damage. 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. Vapour during processing may be irritating to the respiratory tract and to the eyes. Natural rubber: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Potential Health Effects

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Para-aramid	26125-61-1	23 - 62 %
Elastomer Matrix		38 - 77 %

**SECTION 4. FIRST AID MEASURES**



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- Skin contact : Wash off with soap and water. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Call a physician immediately.
- Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Flammable Properties
- Thermal decomposition : 177 - 200 °C (351 - 392 °F)
- Fire and Explosion Hazard : Carbon monoxide Carbon dioxide (CO2) Hydrogen cyanide (hydrocyanic acid) nitrogen oxides (NOx) Hydrocarbons Hydrogen chloride gas Sulphur oxides
- Extinguishing Media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Firefighting Instructions : Wear self-contained breathing apparatus and protective suit. The solid polymer can only be burned with difficulty. Evacuate personnel to safe areas.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.
- Safeguards (Personnel) : Wear personal protective equipment.
  - Spill Cleanup : Sweep up to prevent slipping hazard.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or fumes that may be evolved during processing.
- Storage : Keep away from food, drink and animal feeding stuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed.
- Personal protective equipment
- Eye protection : Safety glasses


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Skin protection : Long sleeved clothing

Respiratory protection : Respirator must be worn if exposed to dust. Use respirator when performing operations involving potential exposure to vapour of the product.

## Exposure Guidelines

## Exposure Limit Values

## Para-aramid

AEL *	(DUPONT)	2 fibers/cm <sup>3</sup>	8 & 12 hr. TWA	Respirable fibers.
AEL *	(DUPONT)	5 mg/m <sup>3</sup>	8 & 12 hr. TWA	Non-fibrous particulate and/or non-respirable fibres.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid, granular
Color	: yellow
Odor	: mild
Specific Gravity	: 1.05 - 1.29
Water solubility	: negligible

**SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Temperature > 200 °C (> 392 °F) Heating can release hazardous gases.
Decomposition	: Decomposition temperature : 177 - 200 °C (351 - 392 °F) Under fire conditions: Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), Hydrogen cyanide (hydrocyanic acid), nitrogen oxides (NO <sub>x</sub> ), Hydrocarbons, Hydrogen chloride gas, Sulphur oxides.
Polymerization	: None.

**SECTION 11. TOXICOLOGICAL INFORMATION**

## Para-aramid

Oral ALD	: > 7,500 mg/kg, rat
Skin irritation	: Species: rabbit, No skin irritation non-irritant
Eye irritation	: non-irritant
Skin sensitization	: Patch test on human volunteers did not demonstrate sensitization



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properties.

Repeated dose toxicity : Inhalation, rat lung effects

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity  
Para-aramid

: This product has no known eco-toxicological effects.

Additional ecological information : This product has no known eco-toxicological effects.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste Disposal : In accordance with local and national regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

TSCA Status : listed or compliant

SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : Chemicals known to State of California to cause cancer, birth defects or any other harm: none known

**SECTION 16. OTHER INFORMATION**

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 H-50103-3 and



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DuPont CAUTION Regarding Medical Applications H-50102-3.

Contact person : MSDS Coordinator, 1007 Market St. Wilmington, DE 19898, Phone: 302-773-0904 (for MSDS information)/804-383-4015 (for technical information)

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