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**Trade name: Polyvinylidene fluoride (PVDF) Monofilament Yarns**

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Date of issue: 15.04.2009/Version 3.01/chw

replaces issue of: 25.04.2008

**1. Identification of substance/preparation and company/undertaking**

Product name: **Polypropylene (PP) Monofilament Yarns**

Producer and Supplier: **Monosuisse AG**  
Gerliswilstrasse 19  
CH-6021 Emmenbrücke (Switzerland)

Telephone Numbers: Switchboard No. +41 41 267 90 90  
Fax No. +41 41 267 92 22

E-Mail: info@monosuisse.com

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**2. Hazards identification**

No significant hazards to humans and environment are associated with this article, if used in accordance with good industrial hygiene practice.

Eye contact: Not irritating to eyes. During proceeding possible risk of mechanical impact.

Skin contact: After long exposure times spin finish may cause a temporary irritation of skin.

Inhalation: Not relevant under normal working conditions.  
In molten state at excessive temperatures and share decomposition may occur and dangerous products as hydrogen fluoride (HF) may be emitted. Inhalation and skin contact must be avoided.

Ingestion: No adverse health effects are expected if small amounts are swallowed.

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**3. Composition / information on ingredients****Chemical nature of base polymer:**

Polyvinylidene fluoride Homopolymer [CAS No. 24937-79-9]

**Physical nature:**

Filament continuous yarn, different dtex and types. Raw white, wound on suitable bobbins or cylinders.

**Spin-finish:**

Yarns are treated with a spin-finish; typical content 0.02% - 0.6% of the yarn weight depending on type and dtex. Typical composition: lubricants, emulsifiers and anti-electrostatics.

**4. First-aid measures**

**Inhalation and skin contact:** Not specifically concerned. Traces of spin-finish may be washed away with water.

**Attention:** in molten state at excessive temperatures and share decomposition may occur and dangerous products as hydrogen fluoride (HF) may be emitted. Inhalation and skin contact must be avoided.

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In case of fire, the molten product may cause burns. Rinse with plenty of water. **Do not** attempt to remove clothes (danger of adherence to the skin). Call for a physician.

Eye contact: Not specifically concerned

Ingestion: Not specifically concerned

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### 5. Fire-fighting measures

Fire extinguishing agents: All usual extinguishing media may be used

Restrictions: No restrictions

**Specific information for fire-fight:** the product is hardly combustible and self extinguishing. For protection against toxic decomposition gases use autonomous respirators to fight fire. Equipment and clothing should be cleaned / washed and decontaminated after use.

**Hazardous decomposition products:** Depending on temperature and oxygen availability, combustion off-gases contain variable quantities of toxic substances as Hydrogen fluoride (HF, Hydrofluoric acid) and carbon monoxide. Avoid inhalation and skin contact.

Emergency Response Intervention (ERI)-Card-number : 4-03

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### 6. Accidental release measures

Accidental dispersion/spill: Collect material for controlled re-use or waste disposal. No special safety risks or risks to the environment.  
Refer to section 13 for disposal information.

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### 7. Handling and storage

Handling: In accordance with good industrial hygiene and safety practices.

Fire precautions: Remove dust, fly and finish residues by ventilation and vacuum cleaning, especially on heat setting operations. Keep away from ignition sources. Beware of static electricity and discharges.

Storage: No special safety precautions for storage rooms. Stable under normal storage conditions.

Storage conditions: Consider technical advises referring to optimal processability.

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### 8. Exposure controls and personal protection

No special risks to humans and environment if handled in accordance with good industrial hygiene practice and any legal requirements.

a) Respiratory protection: Avoid inhalation of eventual vapours or smokes during processing.

b) Hand protection: After long exposure times spin finish may cause a temporary irritation of skin. Protect hands with suitable protective gloves

c) Eye protection: Suitable eye protection is recommended.

d) Skin protection: Respect usual Safety standards for Polymer- and textile industries.

e) Occupational exposure limits: none

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**9. Physical and chemical properties:**

Appearance:	Form:	Monofilament yarns, wound up on suitable spools / cylinders
	Colour:	raw white
	Odour:	none
Melting range:	[°C]:	155 - 170
Flash point:	[°C]:	not applicable
Ignition temperature:	[°C]:	about 600
Thermal decomposition:	[°C]:	starts at about 350°C. At 150°C evaporation of spin-finish may start
Explosion limits:		not explosible
Density:	[g/cm <sup>3</sup> ]:	1.77 – 1.83
Vapour pressure:		not applicable
Solubility in water:		Yarn is not water soluble
VOC-Content		< 1%

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**10. Stability and reactivity**

Conditions to avoid:	none under normal storage conditions
Materials to avoid:	none under normal storage conditions
Hazardous decomposition products:	none under normal storage conditions

Combustion off-gases see point 5.

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**11. Toxicological information**

The yarn products do not present special risks and are not toxic. Spin-finish on the yarn may cause skin-irritation at long-term contact. In case of special end use, Monosuisse AG may be contacted for additional information.

The product is not aseptic.

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**12. Ecological information**

The yarn product is not associated with ecological problems, provided that the wastes are orderly disposed of. Because of its chemical nature, the product is not ecotoxic and not readily biodegradable. Waste water from proceeding steps should be disposed off in waste water treatment plants according to local regulations.

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**13. Disposal considerations**

Can be disposed of as solid waste or burned in suitable installations, subject to local regulations. Recycling or thermal recycling is recommended for both the product and packaging material.

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**14. Transport information**

International regulations:

Class RID/ADR:

not classified as hazardous material

Class ICAO/IATA:

not classified as hazardous material

Class OMI/IMDG:

not classified as hazardous material

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**15. Regulatory information**

Classification and labelling: Product is classified as article and thus exempted from listings in the European inventory for dangerous products.

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**16. Other information**

This Safety Data Sheet follows the EC-Regulation 1907/2006 dated 18.12.2006, Annex II, though the yarns are classified as articles and not as a dangerous substance or preparation defined in Article 31. It is intended to inform about physical properties, safety aspects, toxicological data and ecological characteristics that are relevant for the use of the yarn in textile and industrial applications, and to recommend procedures for handling, storage and transport.

This Safety Data Sheet is a complement to Technical Data Sheets but does not replace them. The information given is to the best of our knowledge at the date of issue. It does not constitute a contractual description of product properties.

The Safety Data Sheet is not meant to be handed out to private end-users. It does not disengage the user of his duty to know and to apply any law and regulation that may be relevant.

Additional information may be requested at Monosuisse AG if special applications of the yarns are intended.