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*This document is NOT a Safety Data Sheet. Its purpose is to provide safety information on products not subject to regulations on dangerous substances and preparations.*  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

- Trade name SOLEF® PVDF AM FILAMENT MSC NT 1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Uses of the Substance/Mixture

- Article
- Professional use
- For industrial use only

### 1.3 Details of the supplier of the safety data sheet

#### Company

SOLVAY SPECIALTY POLYMERS ITALY S.p.A.  
VIALE LOMBARDIA, 20  
20021, BOLLATE  
ITALIA  
Tel: +39-02-290921

#### E-mail address

sds.solvay@solvay.com

### 1.4 Emergency telephone number

+44(0)1235 239 671 [CareChem 24]

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification (UN)

- The product is an article and is not subject of the Globally Harmonised System (GHS).

### 2.2 Label elements

#### GHS label elements (UN)

- The product is an article and is not subject of the Globally Harmonised System (GHS).

### 2.3 Other hazards which do not result in classification

- Thermal decomposition can lead to release of toxic and corrosive gases.

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

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## Information on Components and Impurities

Chemical name	CAS-No.	Concentration [%]
1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene	9011-17-0	> 99.9

## 3.2 Mixture

- Not applicable, this product is a substance.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

In case of inhalation**Exposure to decomposition products**

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Symptoms of poisoning may develop many hours after exposure.
- Keep under medical supervision for at least 48 hours.

In case of skin contact**Exposure to decomposition products**

- Wash off with soap and water.
- Immediately apply calcium gluconate gel 2.5% and massage into the affected area using rubber gloves; continue to massage while repeatedly applying gel until 15 minutes after pain is relieved.
- Consult a physician.

In case of eye contact**Exposure to decomposition products**

- Rinse immediately with plenty of water, also under the eyelids.
- Remove contact lenses.

In case of ingestion

- negligible

## 4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation**Effects**

- The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

**Symptoms****Exposure to decomposition products**

- Headache
- Shortness of breath
- Cough

In case of skin contact**Symptoms****Exposure to decomposition products**

- Irritation
- Redness
- Burn

In case of eye contact**Symptoms****Exposure to decomposition products**

- Irritation

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- Redness
- Burn

**In case of ingestion****Effects**

- Low ingestion hazard.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to physician**

- None

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

- Water
- powder
- Foam
- Dry chemical
- Carbon dioxide (CO2)

**5.2 Special hazards arising from the substance or mixture****Specific hazards during firefighting**

- In the event of fire and/or explosion do not breathe fumes.
- Hazardous decomposition products formed under fire conditions.

**Hazardous combustion products:**

- Hydrogen fluoride
- Fluorophosgene

**5.3 Advice for firefighters****Special protective equipment for firefighters**

- Wear self-contained breathing apparatus and protective suit.
- When intervention in close proximity wear acid resistant over suit.

**Further information**

- Evacuate personnel to safe areas.
- Approach from upwind.
- Protect intervention team with a water spray as they approach the fire.
- Keep containers and surroundings cool with water spray.
- Keep product and empty container away from heat and sources of ignition.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Ensure adequate ventilation.
- Sweep up to prevent slipping hazard.

**6.2 Environmental precautions**

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.

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**6.3 Methods and materials for containment and cleaning up**

- Sweep up or vacuum up spillage and collect in suitable container for disposal.

**6.4 Reference to other sections**

- Refer to protective measures listed in sections 7 and 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Ensure adequate ventilation.
- To avoid thermal decomposition, do not overheat.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- No special storage conditions required.

**7.3 Specific end use(s)**

- Contact your supplier for additional information

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters*****Threshold limit values of by-products from thermal decomposition:*****Components with other occupational exposure limits**

Components	Value type	Value	Basis
Hydrofluoric acid	TWA	0.5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Danger of cutaneous absorption Expressed as :Fluorine		
Hydrofluoric acid	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Danger of cutaneous absorption Expressed as :Fluorine		
Carbonyl difluoride	TWA	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
Carbonyl difluoride	STEL	5 ppm	USA. ACGIH Threshold Limit Values (TLV)

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**Biological Exposure Indices**

Components	Value type	Value	Basis
Hydrofluoric acid	BEI	2 mg/l Fluoride Urine Prior to shift (16 hours after exposure ceases)	ACGIH - Biological Exposure Indices (BEI)
Hydrofluoric acid	BEI	3 mg/l Fluoride Urine End of shift (As soon as possible after exposure ceases)	ACGIH - Biological Exposure Indices (BEI)

**8.2 Exposure controls****Control measures****Engineering measures**

- Ensure adequate ventilation.

**Individual protection measures****Respiratory protection**

- In case of decomposition (see section 10), use an air breathing apparatus with face mask.

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance****Form:** filament**Physical state:** solid**Colour:** white**Odour**

No data available

**Odour Threshold**

No data available

**pH**

No data available

**Melting point/freezing point****Melting point/range:** 140 - 150 °C**Initial boiling point and boiling range**

No data available

**Flash point**

No data available

**Evaporation rate (Butylacetate = 1)**

No data available

**Flammability (solid, gas)**

The product is not flammable.

**Flammability/Explosive limit**

No data available

**Auto-ignition temperature**

No data available

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<b><u>Vapour pressure</u></b>	No data available
<b><u>Vapour density</u></b>	No data available
<b><u>Density</u></b>	No data available
<b><u>Relative density</u></b>	No data available
<b><u>Solubility</u></b>	<u>Water solubility:</u> insoluble
<b><u>Partition coefficient: n-octanol/water</u></b>	No data available
<b><u>Decomposition temperature</u></b>	> 290 °C
<b><u>Viscosity</u></b>	No data available
<b><u>Explosive properties</u></b>	No data available
<b><u>Oxidizing properties</u></b>	No data available

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

- No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

- Stable

**10.3 Possibility of hazardous reactions**

- None known.

**10.4 Conditions to avoid**

- To avoid thermal decomposition, do not overheat.

**10.5 Incompatible materials**

- None known.

**10.6 Hazardous decomposition products**

- Gaseous hydrogen fluoride (HF).
- Fluorophosgene
- Particulates of carbon
- Carbon oxides

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

<b>Acute oral toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available

<b>Acute dermal toxicity</b>	No data available
<b>Acute toxicity (other routes of administration)</b>	No data available
<b><u>Skin corrosion/irritation</u></b>	No data available
<b><u>Serious eye damage/eye irritation</u></b>	No data available
<b><u>Respiratory or skin sensitisation</u></b>	No data available
<b><u>Mutagenicity</u></b>	
<b>Genotoxicity in vitro</b>	No data available
<b>Genotoxicity in vivo</b>	No data available
<b><u>Carcinogenicity</u></b>	No data available
<b><u>Toxicity for reproduction and development</u></b>	
<b>Toxicity to reproduction/Fertility</b>	No data available
<b>Developmental Toxicity/Teratogenicity</b>	No data available
<b><u>STOT</u></b>	
<b>STOT - single exposure</b>	No data available
<b>STOT - repeated exposure</b>	No data available
<b><u>Experience with human exposure</u></b>	No data available
<b><u>Aspiration toxicity</u></b>	No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic Compartment

<b>Acute toxicity to fish</b>	No data available
<b>Acute toxicity to daphnia and other aquatic invertebrates</b>	No data available
<b>Toxicity to aquatic plants</b>	No data available
<b>Toxicity to microorganisms</b>	No data available
<b>Chronic toxicity to fish</b>	No data available
<b>Chronic toxicity to daphnia and other aquatic invertebrates</b>	No data available

### 12.2 Persistence and degradability

<b><u>Abiotic degradation</u></b>	No data available
<b><u>Physical- and photo-chemical elimination</u></b>	No data available
<b><u>Biodegradation</u></b>	No data available

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**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water** No data available**Bioconcentration factor (BCF)** No data available**12.4 Mobility in soil****Adsorption potential (Koc)** No data available**Known distribution to environmental compartments** No data available**12.5 Results of PBT and vPvB assessment** No data available**12.6 Other adverse effects** No data available**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product Disposal**

- Dispose of in accordance with local regulations.

**SECTION 14: Transport information****IMDG**

not regulated

**IATA**

not regulated

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Local regulations**

- None

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet**

- C Ceiling limit
- STEL Short-term exposure limit
- TWA 8-hour, time-weighted average
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.

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- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

The information provided in this document is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.