

Material Safety Data Sheet Page 1/4

Edition: 19.01.2015/JH

Commercial name:

replaces edition: 19.06.2012/JH

Polyester (PET) Precision cut flock

1. Identification of substance/preparation and company/undertaking Product name/cut Polyester (PET) Precision Cut Flock dtex 0.9 – 22, lengths 0.3 - 5 mm, raw white or dyed

Company name (Producer and Supplier)	Head office and production: SwissFlock AG, Gerliswilstr. 25, CH - 6021 Emmenbrücke
	Tel.: + 41 41 268 63 63 Fax.: +41 41 268 63 73
	Web: www.swissflock.com, E-mail: info@swissflock.com

2. Hazards indentification

To the best of our knowledge, Polyester flock products have not been associated with negative effects on humans if used in accordance with good industrial hygiene practice and any legal requirements.

Fine dust fibres:

With the above mentioned dimensions, all Cut Flock Products of SwissFlock AG are above the dimensions of "Fine Dust Fibres" which have been defined as follows *): Diameter < 3 μ m, length 5 - 100 μ m, proportion length: diameter > 3:1. *) Deutsche Forschungsgemeinschaft DFG: List of MAK and BAT Values 2011. Verlag VCH Weinheim 2011, p. 161 f.

3. Composition / information on ingredients

Chemical nature: Polyester (PET), Poly (ethylene terephtalate) CAS Nr. 25038-59-9

Physical nature:

Cut polyester fibres with diameters of 9 μm (0.9 dtex) to 45 μm (22 dtex) and mean length of 0.3 to 5.0 mm. Raw white, spundyed or bathdyed.

Preparation on the fibre:

Inorganic and organic chemicals (total amount max. 2.0 % of weight) which are indispensable for Flock quality intended for electrostatic flocking.

Flock black spundyed:

Contains about 1.1 – 3% of black pigment = Carbon Black (CI 77266).

4. First-aid measures

InhalationNot specifically concerned (s. point 2)Skin contactNot specifically concernedIn 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 contactNot specifically concernedIngestionNot specifically concerned

SwissFlock AG

Gerliswilstrasse 25 • 6021 Emmenbrücke • Switzerland Telefon: + 41 (0) 41 268 63 63 Fax: + 41 (0) 41 268 63 73 <u>info@swissflock.com</u><u>www.swissflock.com</u> President, CEO and owner: Daniel Rütsch



Material Safety Data Sheet Page 2/4

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5. Fire-fighting measures

Fire extinguishing agents Restrictions All usual extinguishing media may be used No restrictions

Specific information for fire-fight:

Use autonomuous respirators to fight fire indoor or in porly ventilated areas. Do not use water as extinguishing agent in the presence of uninterrupted electrical installations.

Hazardous decomposition products:

Depending on temperature and oxygen availability, combustion off-gases contain variable quantities of toxic substances (carbon monoxide, hydrogen cyanide, various organic compounds) which must not be inhaled.

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.

7. Handling and storage

Fire precautions:

Remove dust, fly and finish residues by ventilation and vacuum cleaning, specially on heat setting operations. Keep away from ignition sources. Beware of static electricity an discharges (s. point 9). **Storage:**

No special safety precautions.

Storage conditions:

Consider technical advices referring to optimal processability.

8. Exposure controls and personal protection

Components with occupational exposure limits: None

Industrial hygiene:

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

Personal protection:

Dust mask, protecting goggles recommended.

9. Physical and chemical properties Appearance State:

solid

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Material Safety Data Sheet Page 3/4

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Characteristic temperatures:	Form: Colour: Odour: Molting range:	short fibres raw white, or dyed none 250-260°C
Characteristic temperatures:	Flash point: Ignition temperature:	about 400°C about 450°C
Physical values:	Thermal decomposition: Density: Apparent density:	starts at about 350°C 1.36 - 1,38 g/cm ³ 50 – 200 kg/m ³
	Vapor pression: Solubility in water:	not applicable not water soluble

Explosion limits:

Cut Flock / air mixtures may be explosible within certain concentration limits and sufficiently high ignition energies. Dust explosion class 1, lower range. Normal flock has a minimum ignition energy of about 150 mJ²). On DC electrostatic flocking installations, flock samples can only be ignited at discharge energy > 1300 mJ. Such discharges can only be achieved on a breakdown of the electrostatic flocking installations. On AC electrostatic flocking installations, ignitions of flock are more easy. Effects of solvents from adhesives in the air have to be considered carefully ²). For save operation of electrostatic flocking installations, check EN 50223 ³) and NFPA 33 (USA) ⁴).

- Oβwald, Reiner: Brand und Explosionsschutz in der Flockindustrie. Flock 99, 15. Internat. Flockseminar 1999; 10-1 bis 10-15.
 Pidoll, Ulrich von: Vermeiden der Entzündung faserförmiger Beschichtungsstoffe (Flock) beim elektrostatischen
- Beschichtungsprozess. PTB-ThEx-9,5 + 29 Seiten A4. Braunschweig Nov. 1999. ISBN 3-89701-441-6
- Europäischer Norm DIN EN 50223 (2001): Ortsfeste elektrostatische Flockanlagen für entzündbaren Flock.
 NFPA 33 (2000): Standard for spray application using flammable or combustible materials.

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. Conbustion off-gases see point 5.

11. Toxicological information

The fibre product does not present special risks on humans if used in accordance with good industrial hygiene practice and the concerning legal requirements. In case of special end uses, SwissFlock AG may be contacted for additional information.

12. Ecological information



Material Safety Data Sheet Page 4/4

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The fibre 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.

13. Disposal considerations

Can be disposed of as solid waste or burned in suitable installations, subject to local regulations.

14. Transport information

International reglementation

Class RID/ADR Class ICAO/IATA-DGR Class GGVSee/IMDG-Code not classified as hazardous not classified as hazardous not classified as hazardous

15. Regulatory information

Classification and labelling: Not classified as hazardous (reglementation EEC and others).

16. Other information

This Safety Data Sheet uses the format and listing sequence of Commission Directive (EU) no. 453/2010 though the described product is not a dangerous preparation.

It is intended to inform about physical properties, safety aspects, toxicological data and ecological characteristics that are relevant for the use of synthetic fibres in textile, technical and industrial applications, and to recommend procedures for their 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 ment to be handed out to private end-users.

The Safety Data Sheet does not disengage the user of his duty to know and to apply any law and reglementation that may be relevant.

Additional information may be requested at SwissFlock AG if special applications of synthetic fibres are intended.