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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY OR UNDERTAKING

- 1.1 Product identifier:** FLOCK RAYON VISCOSE
- 1.2 Relevant identified uses of the substance or mixture and uses advised again:**
 Specific use (s): Electrostatic, pneumatic and/or mechanical flocking.
- 1.3 Details of the supplier of the safety information sheet:**
 Company Velutex Flock, S.A.
 Avinguda Sant Julià 129-131 (Polígon Congost)
 08403 Granollers
 Barcelona (Spain)
 Tel: (34) 93 861 70 20
 Fax: (34) 93 840 13 95
 e-mail: s.termes@velutex.com
- 1.4 Emergency telephone:** (34) 93 861 70 20

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- Classification REGULATION (EC) n° 1272/2008**
 Not a hazardous substance or mixture according to regulation (EC) n° 1272/2008.
- Classification (67/548/ECC, 1999/45/EC)**
 Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/46/EC.
- 2.2 Label elements**
- Regulation (EC) n° 1272/2008**
 Not a hazardous substance or mixture according to regulation (EC) n° 1272/2008.
- 2.3 Other hazards which do not result in classification**
 Cut fibres (flock) / air mixtures may be explosive within a concentration limits in sufficiently high ignition energies (class ST 1).

SECTION 3: COMPOSITON / INFORMTION ON INGREDIENTS

- 3.1 Substance**
 Not applicable, this product is a mixture.
- 3.2 Mixture**
 Chemical nature: Product (polymer) based on Cellulose (CAS Nr: 68442-85-3).
 Contains: process additives.
- Remarks: No dangerous ingredients according to Regulation (EC) n°1907/2006.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

If inhaled:	Not applicable.
Skin contact:	Wash off with soap and water.
Eye contact:	In case of eye contact rinse with water.
Ingestion:	Do NOT induce vomiting. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Identification of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIRE FIGHTING MEASURES

General information:	Combustible product.
Flash point:	About 325°C..
Auto-ignition temperature:	About 400°C
Flammability/Explosive limit:	No data available.
5.1 Extinguishing media	
Suitable extinguishing media:	All usual extinguishing agents.
Unsuitable extinguishing media:	Water in the presence of uninterrupted electrical installations.
5.2 Special hazards arising from the substance or mixture	
Toxic vapours are released:	
carbon monoxide (CO).	
carbon dioxide (CO ₂).	
organic decomposition products.	
5.3 Advice for firefighters	
Special protective equipment for firefighters:	Self-contained breathing apparatus (EN 133).

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

No data available.

6.2 Environmental precautions

No harmful effect to the environment is known or expected under normal conditions of use.

6.3 Methods and materials for containment and cleaning up

Remove it using a vacuum cleaner and/or a shovel or sweep it up and transfer to properly labelled container.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Avoid accumulation of product in the air.
- Avoid accumulation of product by regular cleaning.
- Take precaution measures against static discharges.
- Avoid sparks.
- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Recommended: Keep away from open flames, hot surfaces and ignition sources.
Protect the flock against moisture.

Incompatible products: Oxidizing agents, alkaline and strong acids.

Packaging measures

Packaging conditions: Product conditioned within adapted and recyclable packing wooden pallets, carton box with polyethylene bag or polypropylene bag.

Storage temperature: Protect the flock from extreme weather conditions.
In case of low temperatures (< 5 °C) we suggest to expose the flock at 20-22°C of temperature and a 50-60% of relative humidity for 2 hours (at least), before using it in the flocking machine.

7.3 Specific end uses


To work in a safety way, users of flock in electrostatic installation may pay attention to German norms BGI 764 (ZH 1/169) and European regulations EN 50223 and EN 50050.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	Value type	Value	Basis
Titanium dioxide	VLA-ED	10 mg/m ³	Workplace exposure limits for chemicals agents – Table 1: Environment workplace exposure limits

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Derived no effect level (DNEL) / Minimal effect level derived (DMEL)

Product name	Population	Exposure via	Potential health effects	Value type	Value	Observations
Titanium dioxide	Workers	Inhalation	Chronic effects Systemic effects		10 mg/m ³	

The titanium dioxide is encapsulated in the polymer. It is not extracted or released in normal processing and handle.

8.2 Exposure controls

Engineering measures:

Apply technical measures to comply with the occupational exposure limits.
 Avoid fibre fly by aspiration and ventilation.
 Pick up the flock on place.

Personal protective equipment

Respiratory protection:

In case of liberation of fibres or dust:
 Respirators with a particle filter (EN 143).

Eye protection:

Safety glasses with side shields.

Hygienic measures:

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

General advice:

No harmful effect to the environment is known or expected under normal conditions of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Shape: loose textile fibres
 Physical state: solid
 Colour: raw white and coloured

Odour:

Odourless.

Odour threshold:

No data available.

pH:

Not applicable.

Melting point/range:

No data available.

Flash point:

About 325°C).

Evaporation rate
 (Butyl acetate = 1):

No data available.

Flammability (solid, gas):	No data available.
Auto-ignition temperature:	About 400°C.
Vapour pressure:	No data available.
Vapour density:	No data available.
Density (20°C):	1,5 g/cm ³ .
Solubility:	Insoluble. Solubility in other solvents Common organic solvents: practically insoluble.
Partition coefficient n-octanol/water:	No data available.
Thermal decomposition:	No data available.
Explosive properties:	No data available.
Oxidizer properties:	Non oxidizing material according to EC criteria.

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known in compliance of technical storage instructions. See point 7.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Under specified conditions no hazardous reactions are expected. See point 7.

10.4 Conditions to avoid


No dangerous reaction known under conditions of normal use.
See point 7.

10.5 Incompatible material

See point 7.

10.6 Hazardous decomposition products

Decompositions products: On combustion or thermal decomposition (pyrolysis) releases:
Toxic gas
carbon monoxide (CO)).
carbon dioxide (CO₂).
organic decomposition products.

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SECTION 11: TOXICOLOGICAL INFORMATION.

Acute toxicity

Acute oral toxicity: Not classified as harmful if swallowed according to the classification criteria for mixtures.

Acute inhalation toxicity : No data available.

Acute dermal toxicity: No data available.

Acute toxicity (other routes of administration): No data available.

Skin corrosion / irritation

Skin irritation: Not classified as irritant to skin according to the classification for mixtures.

Serious eye damage / eye irritation

Eye irritation: Not classified as irritant to eye according to the classification for mixtures.
It can cause mechanical irritation.

Respiratory or skin sensitization

Sensitization: Not classified as irritant to skin according to the classification for mixtures.

Mutagenicity

Genotoxicity in vitro: No data available.

Genotoxicity in vivo: No data available.

Carcinogenicity

Carcinogenicity : No data available.

Toxicity for reproduction and development

Toxicity in reproduction/fertility: No data available.

Development toxicity teratogenicity: No data available.

STOT

STOT – single exposure: No data available.

STOT – repeated exposure: No data available.

Aspiration toxicity

Aspiration toxicity: No data available.


SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic compartment (including sediment)

Acute toxicity to fish: No data available.

Acute toxicity to daphnia and other invertebrates: No data available.

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Toxicity to aquatic plants: No data available.

Toxicity to microorganisms: No data available.

Terrestrial environment

Toxicity to soil dwelling organisms: No data available.

Toxicity to terrestrial plants: No data available.

Ecotoxicity assessment

Acute aquatic toxicity: Due to its physical state, the product does not have any known adverse effects on the aquatic organisms tested .

12.2 Persistence and degradability

Biodegradability: Ultimate aerobic biodegradability
Being a cellulose fibre is biodegradable.

12.3 Bioaccumulative potential

Bioaccumulative factor (BCF): Not bioaccumulable.

12.4 Mobility in soil

Known distribution to environmental compartments: Ultimate destination of the product: Soil.
It is degraded on soil under normal conditions..

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

Environment assessment: Not classified due to lack of data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product disposal

Advice on disposal: Recycle the material as far as possible.
If recycle is not practicable, dispose of it in compliance with local regulation.

Advice on cleaning and disposal of packaging

Other data: Dispose of it in accordance with local regulation.

SECTION 14: TRANSPORTATION INFORMATION


ADR (road): Not regulated.

RID (railway): Not regulated.

IMDG (sea transport): Not regulated.

IATA (air transport): Not regulated.

ADN/ADNR (fluvial transport): Not regulated.

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SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
According to our knowledge there is no specific regulatory information.
- 15.2 Chemical safety assessment**
No data available.

SECTION 16: OTHER INFORMATION

- 16.1 Recommended application:**
To recover different types of surfaces (plastic, rubber, textile, non-woven, paper, wood, metal, ceramic, glass..) with electrostatic, pneumatic and/or mechanical flocking.
To be mixed with different materials (rubber, plastic, paper, concrete,...).
- 16.2 Special use**
Consult your supplier if material is not to be used for specific applications such as in the food industry for hygiene, medical or surgical end-use.
Do not use in medical applications involving permanent implantation in the human body.
- 16.3 Scope**
This safety information refers only to the flock product described herein and not to its use in conjunction with any other substance or in another preparation or product or any other process.

The information provided herein are based in our actually knowledge. Such information is only given as guidance to help the user handle, use, process, store, transport, disposal and release the product in satisfactory safety conditions. However, it is not a guarantee or the properties of the product and any legal warranty is generated.

This document is NOT a Safety Data Sheet
Its purpose is to provide safety information on products not subject to regulation on
dangerous substances and preparations