



FLOCK-LIVE SNOW

Simulated Snow Effect

Safety Data Sheet

I - IDENTIFICATION

- 1.1.1 Flaking powder snow effect (Référence n° FLOCK-LIVE)
- 1.1.2 The « Flock-Live » product is used to create a "snow flocking" effect on media such as living leaves, trees, flat surfaces, ground, roofs etc., applied with a snow flocking machine.
- 1.1.3 Product sold by PYROFOLIE'S, located 18 Rue Notre-Dame de Lorette, 75009 Paris, France.
- 1.1.4 Phone: 00 33 1 55 07 86 00
- 1.1.5 Emergency contact number: 00 33 1 45 42 59 59. This number gives access to the list of the French poison centers and their phone number. For the UK use 999 for serious problems.

II – HAZARDS IDENTIFICATIONS

- 2.1 **Classification of the substance or mixture**
Not a hazardous substance or mixture in accordance with the regulations (CE) No.1272/2008.
- 2.2 **Label elements**
Not a hazardous substance or mixture in accordance with the regulations (CE) No.1272/2008.
- 2.3 **Other dangers**
This substance/mixture does not contain any ingredients considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or more.
May form explosive dust-air mixture if dispersed.

III – COMPOSITION / INFORMATION ON INGREDIENTS IN CONCENTRATED FORM

- 3.1 **Highly Purified Cellulose** : No.-CAS : 9004-34-6, No.-CE : 232-674-9
- 3.2 **Potato Starch** : No.-CAS : 9005-25-8, No.-CE : 232-679-6

In accordance with the regulations, it is not necessary to mention all the components.

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None of the products listed in III above are considered dangerous for humans, even if these products are applied to decorations and dry after several hours.

Hazards to humans by inhalation : In the form of dust when the applications is on sets (typically indoors), the product may cause in some subjects, a slight irritation of the eyes, nose and throat after a few minutes of exposure. Note when applied as dust only.

Hazards to humans through contact with the skin : The product can cause in some subjects, a slight skin irritation when there is abrasion of the skin with the product.

Hazards to humans by contact with eyes : Irritation of eye mucous membranes and eye watering in some subjects during the application (when applied as dust only dust only)

Hazards for human ingestion : Accidental ingestion may cause in some subjects abdominal pain, when swallowed in high doses only

Environmental hazard : No specific danger reported, even for installations classified for environmental protection. (Consultable in brochure n°1001 of the Official Journal, at numbers 1431, 1432, 1433 and 1434.).

IV – FIRST AID

If inhaled in high concentrations, remove from the contaminated area being dusted. If unconscious, place in the recovery position. In both cases case, keep at rest and call a doctor or take them to casualty

After contact with skin, wash immediately with plenty of water and remove contaminated clothing.

In case of contact with eyes, rinse immediately with water for 10 minutes and seek medical advice

In case of heavy ingestion, do not induce vomiting. Hospitalise the individual as soon as possible

V – FIGHTING MEASURES FIRE / EXPLOSION PREVENTION AND FIRE

5.1 : **Control measures against fire** : Use dry chemical, foam, carbon dioxide or water fog.

5.2 : **Unusual Fire, Explosion hazards** : Damp cellulose can be a significant fire hazard since it may undergo spontaneous combustion. Depending on moisture content, particle diameter, and rate of heating, cellulose dust may explode in the presence of an ignition source. An airborne concentration of 30,000 mg/m³ is often used as the LEL for cellulose. Separate from chemicals with unknown reactions to cellulose.

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VI – MEASURES TO BE TAKEN WHEN APPLYING THE PRODUCT

- 6.1 : **Personal precautions:** Wear respiratory protection during application of cellulose powder (dust)
- 6.2 : **Precautions for environmental protection** : Avoid, as a plugging precaution only, contamination of sewers, surface water and groundwater.
- 6.3 : **Methods for cleaning up** : Clean with water under main pressure or high pressure.

VII – PRECAUTIONS FOR HANDLING, USE AND STORAGE

- 7.1: **Handling and use:** Instruct personnel handling of the risks and precautions. Use appropriate protection for eyes and skin when applying as dust only on sets
- 7.2: **Storage:** Keep dry during transport and storage. Keep dry when applying to avoid blocking pipes in the flocking machine

VIII – CONTROL PROCEDURES - EXPOSURE OF WORKERS AND PERSONAL PROTECTIVE EQUIPMENT NEEDED

- 9.1 : Gloves, goggles and protective clothing must be used during application.

IX – PHYSICAL AND CHEMICAL PROPERTIES

- 9.2 **Appearance/Form** : Powder
- 9.3 **Color** : White
- 9.4 **Odor:** Odorless
- 9.5 **pH** : ≈ 6 (1% solution)
- 9.6 **Melting/Freezing Point** : 500°C-518°C ($\approx 932^\circ$ F.)
- 9.7 **Initial Boiling Point** : Decomposition
- 9.8 **Flash Point** : N/A
- 9.9 **Evaporation Rate** : N/A
- 9.10 **Flammability** : Combustible at high temperatures
- 9.11 **Upper/Lower Flammability Limits** : N/A
- 9.12 **Explosive Limits** : N/A
- 9.13 **Vapor Pressure** : N/A
- 9.14 **Vapor Density** : N/A
- 9.15 **Specific Gravity/Density** : N/A
- 9.16 **Solubility in Water** : Insoluble
- 9.17 **VOC** : N/A
- 9.18 **% Volatile** : N/A

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X – STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
Hazardous reactions	None known under normal use/storage.
Conditions to avoid	Excessive heat, incompatible materials.
Incompatible materials	Strong oxidizing agents, acetic anhydride, elemental potassium/zirconium.
Hazardous decomposition products	Heat decomposition emits acrid fumes and oxides of carbon.
Hazardous polymerization	Will not occur.

XI – TOXICOLOGICAL INFORMATION BEFORE or AFTER APPLICATIONS

- No restrictions unless ingested at high doses (paragraph IV First Aid - applies before or after application and drying)
- No restrictions except inhaling large amounts of dust during the application on sets.

Toxicology **after application** is virtually zero in normal tests. However, it is not advisable humans or animals to ingest the product applied to sets. Ingesting large amounts of cellulose can lead to digestive disorders.

Carcinogenicity	Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.
Mutagenicity	Non hazardous.
Reproductive effects	Non hazardous.
Teratogenicity	Non hazardous.

XII – ECOLOGICAL INFORMATIONS

A. Environmental Hazard : No specific danger reported, even for installations classified for environmental protection. (Consultable in brochure n°1001 of the Official Journal, at numbers 1431, 1432, 1433 and 1434.).

B. Biodégradabilité : The Cellulose product “Flock-Live” is **biodegradable** according to the standard for evaluating the compostability of plastic materials, packaging and polymers specifying that a component of natural origin and not chemically modified is considered biodegradable by default without being subject to a test, which corresponds to the composition of our product “Flock-Live”.

European Standard NF EN 13432 / NF T51-800 > Article 5.6 > Constituents of natural origin:

*« Natural constituents that have not been chemically modified , such as wood fiber, cotton fiber, **starch, paper pulp** or jute, must be recognized as biodegradable without being tested. »*

C. European Registration, Evaluation and Authorisation of Chemicals (REACH) :

Compliant to COMMISSION REGULATION (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards synthetic polymer microparticles.

Compliant to annex XV excluding from this directive, *« degradable or water-soluble polymers and natural polymers that have not been chemically modified, as they do not possess the same long-term persistence and, therefore, do not contribute to the identified risk »,* which corresponds to the composition of our product « Flock-Live ».

<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32023R2055>

<https://echa.europa.eu/documents/10162/b56c6c7e-02fb-68a4-da69-0bcbd504212b>

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XIII – DISPOSAL

Flocked product : When applied to surfaces that are not sensitive to water remove by running a stream of water over the site. On lawns, roll up base laid before flocking, and remove from site for disposal. Rake or vacuum up any residual material left on lawns and remove from site for disposal. Any small white particles left will degrade rapidly.

XIV – TRANSPORT INFORMATIONS

There are no transport issues or restrictions associated with this product.

XV – REGULATORY INFORMATIONS

15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture

This safety data sheet complies with the requirements of the Regulation (CE) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product, no chemical safety assessment has been carried out

Our product is neither affected by the regulations of the health code, nor by that of occupational hygiene and safety.

XVI – OTHER INFORMATIONS

A/Our snow decoration product based on cellulose fibers must not be used for any purpose other than snowmaking or creating decorations. Any other use outside of our process and machinery will in no way give rise to our liability. The use of other so-called "similar" products causes obstruction of our system and, moreover, does not last in bad weather. Likewise, our guarantee will not cover damage suffered, of any nature whatsoever, as well as our liability.

B/ Protect vehicles, windows, etc. during outdoor snowmaking applications. avoid applying the product when there is strong wind, in order to avoid a cleaning operation at your expense.
It is necessary that the elements covered with snow by our process can be cleaned either with a jet of water, or with a vacuum cleaner or a brush. It will therefore be necessary to avoid snowing plants with "fragile" stems and foliage which cannot withstand cleaning with a high-pressure cleaner jet or mains pressure!

C/ Sensitive plants and foliage: No real precautions except for cleaning if the stems or leaves remain very fragile and cannot withstand the pressure of water or air!

D/ Once applied and dry (2 to 3 days depending on ambient humidity), the snow (Cellulose with glue) hardens and resists bad weather and lasts over time provided that the rains are not torrential and incessant and that the Strong winds do not contribute to excessive storms.

E/Avoid snowing on freshly painted or stained surfaces, or directly on the ground.

In fact, our snow product will absorb the colors!

It is strongly recommended, outdoors only, to lay polyester wadding on any flat surface before it snows.

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In addition, cleaning is made easier when previously laying fabric (Geotextile) or synthetic wadding (Snow blanket).

Avoid snowing in excessive thicknesses of our snow product, as the weight of the cellulosic material would not be maintained on vertical supports.

When laid very thinly the cellulose product will be washed off in the rain.

KEEP THE "FLOCK-LIVE SNOW" PRODUCT before applications, OUT OF REACH OF CHILDREN



MSDS issued on the 26th of November 2023 by the decree of November 9, 2004 section R.231-53 of Labour Code.

Updated on the 24th of January 2024.

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