

MATERIAL SAFETY DATA SHEET

Spring'Blanche™

Safety Data Sheet not required by Regulation (EC) n° 1907/2006 (REACH).

Safety Data Sheet provided on a voluntary basis.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Substance identification

Spring'Blanche™ is a yeast protein extract manufactured by plasmolysis of primary grown *Saccharomyces cerevisiae* yeasts.

1.2. Relevant identified uses of the substance / mixture and not recommended uses

Recommended use: Keeping the foam in fermented beverages

1.3. Company / undertaking identification

- **Supplier:**
FERMENTIS a Business Unit of S.I. Lesaffre
137, rue Gabriel Péri
59703 Marcq-en-Baroeul Cedex
FRANCE
Tel: +33 3 20 81 62 75
- **Person responsible for the Safety Data Sheet:**
fermentis@lesaffre.com

SECTION 2. HAZARDS IDENTIFICATION

Eye: Dust may cause mechanical irritation.
Skin: Repeated contacts may cause irritation.
Inhalation: May cause irritation to mucous membranes of nose, throat and lungs.
Ingestion: Not applicable.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Spring'Blanche™ is a yeast extract (CAS N°84604-16-0 / EC N°283-294-5) i.e. a natural ingredient containing:

- Proteins, peptides and amino-acids,
- Minerals,
- Carbohydrates.

SECTION 4. FIRST AID MEASURES

Eye contact: Flush with running water. If irritation or adverse symptoms develop, seek medical attention.
Skin contact: Wash skin with plenty of cold water. If irritation or adverse symptoms develop, seek medical attention.
Inhalation contact: Remove from exposure. If illness or adverse symptoms develop, seek medical attention.
Ingestion contact: In case of ingestion of large quantities, get medical assistance.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinction medium:	Water, dry chemical, foam or CO ₂ .
Contra-indicated extinction means:	None.
Particular risks:	None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Particular precautions:	Personal protective equipment must be used.
Precautions for environment protection:	Avoid discharging directly into the sewers (organic pollution)
Cleaning method:	Easily eliminated by simply washing in water. Avoid high pressure rinsing.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure adequate air extraction in order to prevent from dust inhalation.

7.2. Conditions for a safe storage, including any incompatibilities

Store in a dry and cool place in its original packaging.

Spring'Blanche™ can pick up flavours from the products stored in the same area.

7.3. Special final use(s)

Beverages industry

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:	Safety mask to prevent from dust inhalation.
Ventilation:	Use adequate ventilation.
Hand protection:	Water proof gloves.
Eye protection:	Protective goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Highly hygroscopic powder
Colour:	Yellow to dark brown
Odour:	Typical of yeast extract
pH:	5.5-7.0 (8,33% solution, may vary according to grades)
Breakdown temperature:	> 100°C
Self-ignition temperature:	> 250°C
Danger of explosion:	Class 1 dust
Minimal ignition temperature in 5 mm layer:	> 400°C
Minimal ignition temperature in cloud:	> 500°C
Minimal Ignition Energy (MIE):	1000 mJ < MIE
Violence of explosion:	
- Pmax (bar):	7.1
- (dP/dt) max (bar/s):	199
- Kst (bar.m/s):	54
- Class:	1
Density (g/cm ³):	0.3 - 0.6



SECTION 10. STABILITY AND REACTIVITY

Spring'Blanche™ has bacteriological stability when kept in its original packaging, stored in a cool and dry place protected from direct sun-light.

Conditions to be avoided:	Prevent dust dispersion (explosion risk)
Matters to be avoided:	N/A
Hazardous breakdown products:	N/A



SECTION 11. TOXICOLOGICAL INFORMATION

Repeated inhalations of dust may cause sensitisation and will cause allergic type reaction in sensitised individual.



SECTION 12. ECOLOGICAL INFORMATION

Spring'Blanche™ is highly biodegradable.



SECTION 13. DISPOSAL CONSIDERATIONS

Product and contaminated packaging must be disposed of in accordance with local regulations.



SECTION 14. TRANSPORT INFORMATION

This product is not a dangerous good according to the international transport regulations.

Road transport:	ADR: Not regulated
Rail transport:	RID: Not regulated
Sea and inland waterway transport:	ADN: Not regulated
	IMDG: Not regulated
Air transport:	ICAO/IATA: Not regulated



SECTION 15. REGULATORY INFORMATION

Spring'Blanche™ is not classified under EC 1272/2008 Regulation (CLP).



SECTION 16. OTHER INFORMATION

For industrial use only.

- **Abbreviations**

ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling, Packaging
IATA:	International Air Transport Association
ICAO:	Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG:	International Maritime Code for Dangerous Goods
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulation concerning the International Transport of Dangerous Goods by Rail

- **Notice to reader**

The information provided in this Safety Data Sheet are based on the state of our knowledge of this product, at the revision date of this Safety Data Sheet. The information provided in this Safety Data Sheet supplement the Technical Data Sheets but do not replace them. This Safety Data Sheet is only a support for the handling, use, processing, storage, transportation, use and disposal. It should not be construed as a warranty or quality specification. The user's attention is drawn to the possible risks and risks of using a product for purposes other than those for which it was designed as shown in this safety data sheet: it is the the user's responsibility to assess the applicability of the information and recommendations provided in this Safety Data Sheet and its suitability its own activities and goals. FERMENTIS will not be held responsible for any use of the product which is not consistent with the information provided in this Safety Data Sheet. Compliance with the instructions contained in this safety data sheet does not relieve the user to ensure that it complies with all regulations and recommendations related to its products and activities. The information provided in this Safety Data Sheet is subject to license fees and property. The information contained in this present form may not be reproduced or distributed in any form or by any means without written request prior authorization to FERMENTIS.

End of the Safety Data Sheet