

Commercial name of the product: SpringFerm BR-2

Sheet 2017/08/03, version 1

In accordance with the requirements of Regulation (EC) 1907/2006 and modifications

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

1.1. Product identifier

Commercial name: SpringFerm BR-2

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

Recommended use: Fermentation aid for beverages

1.3. Company/ undertaking identification

• Supplier:

FERMENTIS a Business Unit of S.I Lesaffre 137 rue Gabriel Péri 59703 Marcq-en-baroeul FRANCE +33 3 20 81 62 75

Person responsible for the Safety Data Sheet

Fermentis@lesaffre.fr

1.4. Emergency telephone number

Ireland: National Poisons Information Centre, Beaumont Hospital +353 (0)1 809 2166 (8 am to 10 pm)

United Kingdom: The National Poisons Information Service (formerly the Poisons Centres network) offers a 24-hour helpline in the event of poisonings, http://www.npis.org/telephone.html).

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation criteria CE 1272/2008 (CLP):

Eye Dam. 1 Aquatic Chronic 2

• Other information

For full text of hazard statements: see section 16.

2.2. Labelling elements

· Hazard pictograms





Signal Word

DANGER

Hazard statements

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.





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· Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

P391 Collect spillage.

P501 Dispose of this material and its container to hazardous or special waste collection point,in accordance with local, regional, national and/or international regulation

• Risks determining components

Zinc sulfate, manganese sulfate

Additional information on hazards

Purposeless

2.3. Other hazards

vPvB substances: None - PBT substances: None Suspected to form dust inducing a risk of explosion

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Substance	Identification number	% (mass)	Classification according to regulation N°1272/2008	REACH
Zinc sulfate	7446-19-7	3 – 7	H302; H318; H400; H410	REACH exempted: use of <1 MT per year
Manganese sulfate	10034-96-5	< 2	H318; H373; H411	REACH exempted: use of <1 MT per year

• Other information:

For full text text of statement H: see section16

SECTION 4. FIRST AID MEASURES

4.1. Description of the first-aid measures

In case of skin contact:

If irritation occurs, consult a doctor.

Wash with plenty of soap and water.

In case of eye contact:

In case of eye contact, rinse immediately with plenty of water. Consult a specialist if an irritation occurs. Immediately call a POISON CENTER or doctor/physician

In case of ingestion:

Do not induce vomiting under any circumstances. If ingested in large quantities, consult a doctor.

<u>In case of inhalation:</u>

Transport the victim outside and maintain her at rest.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.





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4.2. Main symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

None

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing

Appropriate ways of extinction: Water Carbon dioxide (CO2) Water sprayed

Ways of extinction which must not be used for safety reasons: None in particular

5.2. Special hazards resulting from the substance or mixture

Do not inhale the gas produced by the explosion or combustion

5.3 Advice for firefighters

Use adapted respiratory systems.

Collect separately contaminated water used for fire extinguishing. Do not discharge into wastewater systems. If feasible from the safety point of view , move undamaged containers from the immediate danger zone.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

6.2. Precautions for the protection of environment

Avoid release to the environment.

Collect spillage.

Dispose of this material and its container to hazardous or special waste collection point,in accordance with local, regional, national and/or international regulation

Prevent penetration into soil / subsoil. Prevent discharge into surface waters or wastewater systems. Retain contaminated washing water and dispose it.

In case of leakage or seepage into waterways, soil or water drainage system, inform responsible authorities. Equipment suitable for the collection: absorbing material, organic, sand.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid skin and eye contact, inhalation of vapours or mists. Do not eat or drink while working.

7.2. Conditions for a safe storage, including any incompatibilities

Keep away from sources of ignition. Avoid dust formation





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Store in a dry, cool place

Incompatible materials: None in particular

Indication for premises: Adequately ventilated premises

7.3. Special final use(s)

Fermentation aid for beverages industry

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Ingredients with exposure limit values:

Manganse sulfate (10034-96-5)	Finland	Limit Value – Eight hours
		0.2 mg/m3 inhalable fraction
		0.02 mg/m3 respirable fraction
		(calculated as Mn)

8.2. Exposure controls

Eye protection:

Safety goggles against dust.

Skin protection:

Lab coat - protective clothes.

Hands protection:

Suitable gloves type: NR (natural rubber, natural latex).

Respiratory protection:
Dust filter device

SECTION 9. PHYSICAL ET CHEMICAL PROPERTIES

9.1. Information on essential physical and chemical protection

Appearance and colour:	powder
Odour and odour threshold:	typical
pH:	unknown
Melting/ freezing point :	unknown
Initial boiling point and boiling range:	unknown
Solid / gas flammability:	unknown
Flammability or explosion limit:	unknown
Vapour density:	unknown
Flash point:	unknown
Evaporation rate:	unknown
Vapour pressure:	unknown
Relative density:	unknown
Water solubility:	partially
Fat-solubility:	unknown
Partition-coefficient (n-octanol / water):	unknown
Auto-ignition temperature :	unknown
Decomposition temperature:	unknown
Viscosity:	unknown
Explosive properties:	unknown
Oxidizing properties	unknown

9.2. Other information

Miscibility:	unknown
Fat-solubility (organic solvents):	unknown





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Conduction: unknown

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Not available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

None in particular

10.5. Materials to avoid

None in particular

10.6. Hazardous decomposition products

None

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Zinc sulfate (7446-19-7) LD50 (oral - rat) = 1710 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Zinc sulfate (7446-19-7)

LC50 fish	330 μg/l/96h (Pimephales promelas) (anhydrous product)
EC50 Daphnia	131 μg/l/48h (Daphnia magna) (OECD 202 method) (anhydrous product)
NOEC Chronic fish	250 μg/l (Salmo trutta) 16days (OECD 210 method) (anhydrous product)
NOEC chronic crustacea	19 μg/l (Haliotis rufescens) 9days (anhydrous product)

Manganese sulfate (10034-96-5)

LC50 fish	3,2 mg/l/96h (Oncorhynchus mykiss)
ErC50 Algae	61 mg/l/72h (Desmodesmus subspicatus) (OECD 201)
NOEC chronic algae	1 mg/l (Desmodesmus subspicatus) (OECD 201)

12.2. Persistence and degradability

No additionnal information available

12.3. Potential of bioaccumulation

No additionnal information available

12.4. Mobility

No additionnal information available

12.5. Results of PBT assessment

vPvB substances: None – PBT substances: None

12.6. Other adverse effects

No additionnal information available





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SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Send to authorized disposal plants or for incineration under controlled conditions. Operate by respecting the current local and national measures.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN3077

14.2. UN shipping name

Environmentally hazardous subtance, solid, n.o.s. (zinc sulfate)

14.3. Hazard class for transport

Class: 9

14.4. Packaging group

Packaging group: III

14.5. Hazards for environment

Marine polluant: YES Environment polluant: YES

14.6. Special precautions for user

ADR - special provision 375 IATA DGR - special provision A 197 IMDG chapitre 2.10.2.7

SECTION 15. REGULATORY INFORMATION

15.1. Specific regulation/ legislation to the substance or mixture regarding safety, health and environment

In accordance with European regulations

15.2. Chemical safety assessment

Nο

SECTION 16. OTHER INFORMATION

• Full text of statements named in heading 3

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC

Statements	Full text
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects.
H302	Harmful if swallowed
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H373	May cause damage to organs through prolonged or repeated exposure.

Main bibliographic sources

GESTIS International Limit Values (IFA)





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Abbreviations

REACH Registration, Evaluation, Authorization and restriction of CHemicals

CAS: Department of Chemical Abstracts (Division of American Chemical Society)

CLP: Classification, Labelling, Packaging

EINECS: European Inventory of Existing Commercial Chemical Substances

PBT Persitent, bioaccumulative and toxic vPvB Very persistent, very bioaccumulative

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.

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End of the Safety Data Sheet

