

SAFETY DATA SHEET

Product Name: Springferm Xtrem
Product Number(s): 60805, 60818

SECTION 1: IDENTIFICATION

Product Identifiers

Product name : Springferm Xtrem
Product Code(s) : 60805, 60818
CAS Number : Not Applicable

Application of the Substance or Mixture

Product Use : Fermentation Aid
Product Restrictions : No further relevant information available

Details of the Supplier of the Safety Data Sheet

Company Identification : Lesaffre Yeast Corporation
Red Star Yeast Company, LLC
7475 West Main Street
Milwaukee, WI 53214
1-877-677-7000

Emergency Telephone Number

Transport Emergency : CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture.

GHS Label Elements

Not a hazardous substance or mixture.

Hazard(s) Not Otherwise Classified

(HNOC) or not covered by GHS : Material may cause slight irritation on prolonged or repeated contact. Do not handle this material if you have known allergies or otherwise physical reaction to yeast.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Classification : Mixture
Common Name/ Synonyms : Cell Wall, Yeast Cell Wall; Fermentation Aid
CAS Number : Not Applicable
EC Number : Not Applicable

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Hazardous Components

No ingredients are hazardous according to OSHA criteria or Canada's Workplace Hazardous Materials Information System (WHMIS).

No components need to be disclosed according to the applicable regulations.

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures

Eye Contact : Remove contact lenses at once. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical help if needed.

Skin Contact : Flush skin with plenty of water.

Ingestion : If victim is conscious and alert, rinse mouth with water as a precaution. Never give anything to an unconscious person.

Inhalation : Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical help immediately.

Most Important Symptoms and Effects, both Acute and Delayed

No further relevant information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Agents : Use dry chemical, carbon dioxide, water spray, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

Special Hazards Arising From the Substance or Mixture

Calcium oxides, Carbon oxides, Nitrogen oxides, Sulphur oxides, Hydrogen chlorine gas

Advice for Firefighters

Protective Equipment : Wear self-contained breathing apparatus for firefighting if necessary.

Additional Information : No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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Methods and Materials for Containment and Clean Up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to Other Sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection. For precautions, see section 2.

Conditions for Safe Storage, Including Any Incompatibilities

Store unopened in a cool (<80°F/ 27°C) area.

Specific End Use(s)

Apart from the use(s) mentioned in Section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION

Control Parameters

Exposure Limits : OSHA and ACGIH have not established specific exposure limits for this material.

Appropriate Engineering Controls : General industrial hygiene practice.

Personal Protective Equipment

Eyes : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin : Wear appropriate protective gloves to prevent skin exposure. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Respiratory protection is not required. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if irritation or other symptoms are experienced.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance:

Form	: Powder
Color	: Light tan
Odor	: Typical of yeast
Odor Threshold	: No Data Available
pH	: No Data Available
Freezing/ Melting point	: No Data Available
Initial Boiling Point and Boiling Range	: No Data Available
Flash Point	: No Data Available
Evaporation Rate	: No Data Available
Flammability (solid, gas)	: No Data Available
Upper/Lower Flammability or Explosive Limits	: No Data Available
Vapor Pressure	: No Data Available
Vapor Density	: No Data Available
Relative Density	: No Data Available
Water Solubility	: Slightly
Partition Coefficient: n-octanol/water	: No Data Available
Auto-ignition Temperature	: No Data Available
Decomposition Temperature	: No Data Available
Viscosity	: No Data Available
Explosive Properties	: No Data Available
Oxidizing Properties	: No Data Available

Other Safety Information

No further relevant information available.

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No Data Available

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

No dangerous reactions known.

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Conditions to Avoid

No further relevant information available.

Incompatible Materials

No further relevant information available.

Hazardous Decomposition Products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute toxicity

LD50/ LC50 values that are relevant for classification

Component	: Thiamine Hydrochloride
CAS No.	: 67-03-8
LD50 Oral- Rat	: 3, 710 mg/kg
Inhalation	: No data available
Dermal	: No data available

Component	: Calcium Pantothenate
CAS No.	: 137-08-6
LD50 Oral- Rat	: >10, 000 mg/kg
Inhalation	: No data available
Dermal	: No data available

Component	: Niacin
CAS No.	: 59-67-6
LD50 Oral- Rat female	: >6, 450 mg/kg (OECD Test Guideline 401)
Inhalation	: No data available
LD50 Dermal- Rat	: > 2, 000 mg/kg (OECD Test Guideline 402)
LD50 Intraperitoneal- Rat	: 730 mg/kg
LD50 Subcutaneous- Rat	: 5, 000 mg/kg

Skin Corrosion/Irritation

LD50/ LC50 values that are relevant for classification

Component	: Niacin
CAS No.	: 59-67-6
Skin- Rabbit	: No skin irritation- 4h (OECD Test Guideline 404)

Serious Eye Damage/Eye Irritation

Component	: Niacin
CAS No.	: 59-67-6
Eyes- Rabbit	: No skin irritation- 4h (OECD Test Guideline 405)

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Respiratory or Skin Sensitization

Component : Niacin
 CAS No. : 59-67-6
 Maximisation test (GPMT)
 Guinea Pig : Did not cause sensitization (OECD Test Guideline 406)
 Do not handle this material if you have known allergies or otherwise physical reaction to yeast.

Germ Cell Mutagenicity

Component : Niacin
 CAS No. : 59-67-6
 Ames test *S. typhimurium* : Negative
 OECD Test Guideline 475
 Rat- M and F : Negative

Carcinogenicity

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 IARC : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish

LD50/ LC50 values that are relevant for classification

Component : Niacin
 CAS No. : 59-67-6
 Static test LC50- *Salmo trutta* : 520 mg/L- 96h (OECD Test Guideline 203)

Toxicity to Other Aquatic Invertebrates

Component : Niacin
 CAS No. : 59-67-6
 Immobilization EC50 *Daphnia*
 Magna (Water Flea) : 77 mg/L- 48h (OECD Test Guideline 202)

Toxicity to Algae

Component : Niacin
 CAS No. : 59-67-6
 Growth Inhibition EC50
Desmodesmus subspicatus
 (*Scenedesmus subspicatus*) : 105.6 mg/L- 72h (OECD Test Guideline 201)

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Toxicity to bacteria

Component : Niacin
CAS No. : 59-67-6
Growth Inhibition IC50
Psuedomonas putida : 120 mg/L- 72h

Persistence and Degradability

Biodegradability

Component : Niacin
CAS No. : 59-67-6
Aerobic : 14d, 100% Readily biodegradable

Biochemical Oxygen Demand (BOD) : No Data Available

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB Assessment

PBT : Not Applicable
vPcB : Not Applicable

Other Adverse Effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Product

Dispose of in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Contaminated Packaging

Dispose of container and unused contents in accordance with federal, state and local requirements.

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SECTION 14: TRANSPORTATION INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Regulator : Domestic (Land, DOT)
Proper Shipping Name : Not Regulated
Hazard Class : Not Regulated
UN/NA : Not Regulated
Packing Group : Not Regulated

Regulator : International (Water, IMO / IMDG)
Proper Shipping Name : Not Regulated
Hazard Class : Not Regulated
UN/NA : Not Regulated
Packing Group : Not Regulated

Regulator : International (Air, ICAO / IATA)
Proper Shipping Name : Not Regulated
Hazard Class : Not Regulated
UN/NA : Not Regulated
Packing Group : Not Regulated

SECTION 15: REGULATORY INFORMATION

SARA

Section 302 Extremely Hazardous Substances : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section 313 Specific Toxic Chemical Listings : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA (Toxic Substances Control Act)

This product is for FDA regulated product use only.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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State Right to Know Components

Massachusetts : No components are subject to the Massachusetts Right to Know Act.
 Pennsylvania : Ingredient Name CAS-No.

Thiamine hydrochloride	67-03-8
Calcium Pantothenate	137-08-6
Niacin	59-67-6
Folic Acid	59-30-3

New Jersey : Ingredient Name CAS-No.

Thiamine hydrochloride	67-03-8
Calcium Pantothenate	137-08-6
Niacin	59-67-6
Folic Acid	59-30-3

Carcinogenic Categories

EPA (Environmental Protection Agency): Substance is not listed.
 TLV (Threshold Limit Value established by ACGIH) : Substance is not listed.
 NIOSH-Ca (National Institute for Occupational Safety and Health) : Substance is not listed.

Additional Information

Clean Air Act : This material does not contain any hazardous air pollutants.
 This material does not contain any Class 1 Ozone depleters.
 This material does not contain any Class 2 Ozone depleters.

Clean Water Act : None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 None of the chemicals in this product are listed as Priority Pollutants under the CWA.
 : None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

HMIS Rating (scale 0 – 4)

Health Hazard	: 1
Chronic Health Hazard	: 0
Flammability	: 1
Physical Hazard	: 0

NFPA Rating (scale 0 – 4)

Health Hazard	: 0
Fire Hazard	: 1
Reactivity Hazard	: 0
Special	: Not Applicable

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SECTION 16: OTHER INFORMATION

SDS Issue Date : March 8, 2017

SDS Revision Number : Original

Supersedes Issue Date : Not Applicable

Summary of Changes

Revision No.	Changes
Original	<ul style="list-style-type: none"> New SDS, removed from Technical Data Sheet

Disclaimer

The information in this SDS was obtained from current and reliable sources. However the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.