



# SAFETY DATA SHEET

## SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product name: Bio-Ferm® XP  
 Product code: 6411-10  
 Description: High performance active dry yeast  
 Product use: Production of fuel and industrial alcohol.

Supplier name and address: **Lallemand Biofuels & Distilled Spirits**  
**6120 West Douglas Avenue**  
**Milwaukee, WI 53218**

Information telephone: +1 (414) 393-0410  
 Emergency telephone: Contact your local doctor or hospital

## SECTION 2 - HAZARD IDENTIFICATION

### Classification of substance or mixture.

Not a hazardous substance or mixture

### GHS Label elements, including precautionary statements.

Not a hazardous substance or mixture

### Hazards not otherwise classified or not covered by GHS

None

## SECTION 3 – DATA ON COMPONENTS

Name	CAS #	% by Wt	LD <sub>50</sub> & LC <sub>50</sub>	OSHA PEL	ACGIH TLV
<i>Saccharomyces cerevisiae</i>	68876-77-7	100%	Not established	Not established	Not established

## SECTION 4 – FIRST AID MEASURES

### Emergency and First aid procedures

Eye contact: Flush eyes for at least 15 minutes. If irritation persist seek medical advice  
 Skin contact: Wash affected area with soap and water. Remove contaminated clothing and wash before reuse  
 Inhalation: Immediately remove person to fresh air. If allergic respiratory reaction occurs seek medical advice  
 Ingestion: Wash mouth and throat with water seek medical advice if symptoms persist

### Most important symptoms and effects both acute and delayed

Irritation, nausea, headache and shortness of breath

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

If seeking medical attention provide SDS to physician



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## SECTION 5 – FIRE FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media Use water spray, foam, dry chemical or carbon dioxide

Special hazards arising from substance or mixture Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters Wear self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires.

Further information No data available

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. For personal protection see section 8
Environmental precautions	Maintain Good Housekeeping Practices
Methods and material for containment and cleaning up	Sweep up and keep in a suitable container for disposal
Reference to other sections	For disposal see Section 13

## SECTION 7 – HANDLING & STORAGE

Precautions for safe handling Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wear protective equipment described in Section 8 if exposure conditions warrant. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep product in a cool dry place. Keep containers tightly sealed.

## SECTION 8– EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters	No applicable occupational exposure limits
Appropriate Engineering controls	Emergency eye wash fountains should be available in the immediate vicinity of use/handling. Ensure that dust-handling systems are designed in a manner to prevent the escape of dust into the work area.
Respiratory protection	Use suitable respiratory protective device when high concentrations are present.
Skin protection	Wear latex or other impervious gloves.
Eye protection	Safety glasses with side shields or goggles

## SECTION 9– PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Solid
Appearance:	Dried tan to beige
Odor:	Odorless to mild savory odor
Vapour pressure:	Not applicable.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.
Boiling point:	Not applicable.
Freezing point:	Not applicable.
Melting point:	Not determined
pH:	No data available.
Partition coefficient:	Not applicable.
Viscosity:	Not applicable.
Solubility in water:	Suspends in water



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## SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	Not reactive
Chemical Stability:	Stable under recommended storage conditions.
Possible hazardous reactions:	Not determined
Conditions to avoid:	High heat and humidity
Incompatible materials	Oxidizing agents, strong acids or bases
Hazardous decomposition products:	Carbon oxides (CO, CO <sub>2</sub> )

## SECTION 11– TOXICOLOGICAL INFORMATION

Acute toxicity	No known effects
Skin corrosion/irritation	Possible irritation to skin
Eye damage/eye irritation	Possible irritation to eye
Respiratory or skin sensitization	Possible allergic reaction or sensitization
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity single exposure	No data available
Specific target organ toxicity repeated exposure	No data available

## SECTION 12– ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No persistence and substance is bio-degradable
Bioaccumulation potential	None
Mobility in soil	Not relevant
Results of PBT and vPvB assessment	Not relevant
Other adverse effects	None

## SECTION 13 – DISPOSAL CONSIDERATIONS

Consult federal state/provincial and local regulations regarding proper disposal of waste material that may incorporate some amount of this product.

## SECTION 14– TRANSPORT INFORMATION

Not a DOT, TDG (Canada) IMDG or IATA controlled material

## SECTION 15 – REGULATORY INFORMATION

<b>United States (USA)</b>	
SARA Section 311/312 (Specific toxic chemical listings)	None of the ingredients is listed
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients is listed
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients is listed
<b>Canada</b>	
Canadian Domestic Substances List (DSL)	All ingredients are listed

## SECTION 16– OTHER INFORMATION

SDS Date of Preparation: January 2013, January 2015, January 2017, January 2019, January 2021

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