

SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product name: C5 Fuel™ Product code: 6413-21

Description: High performance liquid yeast Product use: Fuel ethanol production

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 ₅₀ & LC ₅₀	OSHA PEL	ACGIH TLV
Saccharomyces cerevisiae	68876-77-7	20	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. If irritation persist seek medical advice

Inhalation: Immediately remove person to fresh air. If exposed to carbon dioxide give respiratory support if needed

and seek medical attention

Ingestion: Move from source of exposure. If signs of toxicity occur seek medical attention

Most important symptoms and effects both acute and delayed Respiratory distress, dizziness or stupor if exposed to

carbon dioxide

Indication of any immediate medical attention and special

treatment needed.

If seeking medical attention provide SDS to

physician



SAFETY DATA SHEET

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use appropriate medium for underlying cause of fire

Special hazards arising from substance or mixture None

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

Use appropriate personal protective equipment as outlined in

emergency procedures Section 8

Environmental precautions Do not allow product to enter the environment

Methods and material for containment and cleaning up In the event of a spill, clean area with disposable absorbent pads or

sheets. Spilled or discarded yeast at an ethanol production facility should be disposed of by flushing into the beer-well where it can be thermally inactivated. Residual yeast can be inactivated by cleaning with a solution of 2 vol% household bleach (1:50 dilution) in water or a 1-2 % caustic

solution.

Reference to other sections For disposal see Section 13

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling Keep containers closed when not in use. Wear protective equipment described in

Section 8. Wash thoroughly after handling. Do not handle this material if you have

known allergies or otherwise physical reaction to yeast.

Conditions for safe storage,

including any incompatibilities

Store at a refrigeration temperature of 33.8-40°F or 1-4°C. Keep containers closed when not in use. Respiring yeast may naturally generate carbon dioxide. Ensure adequate ventilation

in storage areas where packaged yeast is stored. Over exposure to carbon dioxide may

cause asphyxiation.

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.

Respiratory protection
Skin protection
Wear latex or other impermeable gloves.
Eye protection
Safety glasses with side shields or goggles

SECTION 9- PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid Appearance: Tan

Odor: Mild savory odor
Freezing point: Not determined
Melting point: Not determined
pH: No data available.
Partition coefficient: Not applicable

Partition coefficient: Not applicable.
Viscosity: Not applicable.
Solubility in water: Suspends in water



SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Stable under recommended storage conditions.

Possible hazardous reactions: None

Conditions to avoid: High temperatures

Incompatible materials None Hazardous decomposition products: None

SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity

Skin corrosion/irritation

Serious eye damage/eye irritation

No data available
No data available

Respiratory or skin sensitization Possible allergic sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity single exposure
Specific target organ toxicity repeated exposure

No data available
No data available
No data available

SECTION 12- ECOLOGICAL INFORMATION

Toxicity
Persistence and degradability
Bioaccumulation potential
Mobility in soil
Other adverse effects
No data available
No data available
No data available
No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with Federal, State and Local regulations. Yeast in liquid and solid wastes must be inactivated; this can be accomplished by thermal treatment at 176°F (80°C) for 2 minutes. Spilled or discarded yeast at an ethanol production facility should be disposed of by flushing into the beer-well where it can be thermally inactivated. Residual yeast can be inactivated by cleaning with a solution of 2 vol % household bleach (1:50 dilution) in water or a 1-2 % caustic solution.

SECTION 14- TRANSPORT INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

This product does not meet the definition of a hazardous material given in the US Occupational Safety and Health Administration's Hazard Communication Standard.

SECTION 16- OTHER INFORMATION

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

The information herein is based on current available data and is believed to be correct. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use. The user is responsible for determining product suitability, conditions of use and all associated hazards. Values listed in this document are not product specifications.