

LESAFFRE YEAST CORPORATION

RED STAR® “ALL NATURAL” ACTIVE DRY YEAST

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

Red Star® Natural Active Dry Yeast is a strain of *Saccharomyces cerevisiae*. Once the propagation of the yeast is complete, the product is washed three times with potable water to remove any remnants of the growth media. The strain of yeast used has been obtained from nature, and has not been genetically modified. The moisture is removed in such a way that cell viability and leavening power are retained. This results in a granular form of yeast, which is ground to varying degrees of fineness. This “Natural” product is unique in that no processing aids or preservatives are used at the time of drying.

REGULATORY:

All materials shall be of edible grade, clean, sound, wholesome and free from extraneous matter. Product shall be prepared following Good Manufacturing Practices and shall comply with the Federal Food, Drug, and Cosmetic Act of 1938, as amended and with regulations issued pursuant to this act.

INGREDIENT STATEMENT: Yeast**ANALYTICAL STANDARDS:**

Parameter	Specification	Test Method Reference
Dry Matter	93-97 %	AOAC 27.8.03 961.06
Gassing Power	110-130	AACC 89-01 Fermentometer 20° C

MICROBIOLOGICAL STANDARDS:

Parameter	Specification	Test Method Reference
Salmonella	Neg / Class III	BAM CH 6
Coliform	< 100 CFU /g	BAM CH 4
E. Coli	<10 CFU / g	BAM CH 4

PACKAGING INFORMATION:

Item Number	Units per Case	Case Dimensions			Cubic Feet
		Height	Length	Width	
15850	50 lb	20 ¼”	15 ½”	7 ¼”	1.3

PALLET INFORMATION:

Item Number	Pallet Configuration	Pallet Dimensions			Cubic Feet
		Height	Length	Width	
15850	45 Cases (5 layers of 6, 3 layers of 5)	67”	48”	40”	74

SHELF LIFE & STORAGE:

Red Star[®] Active Dry Yeast has a Shelf life of **18 Months** if stored at **< 80° F**

KOSHER:

Red Star[®] Active Dry Yeast is certified as Kosher-Pareve by KOF-K

LOT CODING:

Production Month 1105 = Nov 2005, Expiration Month 1107 = Nov 2007 Internal Code 536/3 – Material tracking code

GMO / ORGANIC STATEMENT

Non-GMO following EEC regulations. Contains no GMO enzymes, have not been solvent-extracted, synthetically preserved or irradiated. Contain no artificial flavors or colors. There was no sewer sludge, petrochemical substrate, or sulfite waste liquor involved with any step of production. These products comply with NOP regulation 205.605(a)(20) and with 7 CFR 205.301(b&c)

BSE:

No animal products used in manufacturing process or raw materials

PRESERVATIVES:

No preservatives present in product

VEGETARIAN STATUS:

Acceptable for “Vegan” diets

GLUTEN:

Gluten Free

COUNTRY OF ORIGIN:

Mexico

GMPs:

Food GMPs

FOOD DEFENSE:

Facilities are registered with the FDA and are in compliance with FDA Guidelines relating to Food Security

USAGE:

Red Star[®] Natural Active Dry Yeast can be used in all yeast-leavened goods with either straight or sponge doughs. It is an organic product. Yeast should be rehydrated with a minimum of 3.5 to 4.0 times its weight in water at 38-43°C.(100-110°F.).

08/09

The information herein is true and accurate to the best of our knowledge. However, this data sheet is not to be considered as guarantee expressed or implied, or as a condition of sale of this product

[7475 West Main St Milwaukee, WI 53214](http://www.redstar.com)

LESAFFRE YEAST CORPORATION

NUTRIENT INFORMATION

PRODUCT NAME	Red Star "All Natural" Active Dry Yeast
PRODUCT CODE (S)	15850
COMPANY	Lesaffre Yeast Corporation
ADDRESS	7475 West Main St Milwaukee, WI 53214
PHONE / FAX	414-615-4085 / 414-615-4003
CONTACT	Robert Biversi – Director, Quality Assurance

TYPICAL ANALYSIS

Per 100g "As Is"

Calories	315-355	kcal		Fat	5-8	g
Moisture	3-7	g		Saturated	1-2	g
Protein	47-53	g		Unsaturated	4-6	g
Ash	3.5-5.5	g		Monounsaturated	4-6	g
Carbohydrates	31-37	g		Polyunsaturated	0	g
Complex	31-37	g		Trans Fatty Acids	0	g
Sugars	0	g		Cholesterol	0	mg
Dietary Fiber	26-28	g		Iron	2-4	mg
Soluble		g		Calcium	15-30	mg
Insoluble		g		Sodium	50-100	mg
Vitamin A	0	ug RE		Potassium	1500-1900	mg
Vitamin C	0	mg		Phosphorous	2300-2500	mg
Thiamin	9-16	mg				
Niacin	40-60	mg NE				
Riboflavin	4-6	mg				

Ingredient Statement: Yeast

12/06

[7475 West Main St Milwaukee, WI 53214](#)

LESAFFRE YEAST CORPORATION

ALLERGEN & SENSITIVE COMPONENTS

PRODUCT NAME	Red Star "All Natural" Active Dry Yeast			
PRODUCT CODES	15850			
ALLERGEN & SENSITIVE COMPONENT	PRESENT IN PROD		PRESENT ON SAME LINE	
	YES	NO	YES	NO
MILK PRODUCTS (butter, casein, cheese, whey, nougat, malted milk, sour cream, yogurt, etc.)		X		X
EGG PRODUCTS (mayonnaise, meringue, ovalbumin, etc.)		X		X
FISH any type		X		X
SHELL FISH (crustaceans, mollusks, shrimp, crab, lobster, oyster, clam, scallop, crayfish, etc.)		X		X
TREE NUTS (almond, cashew, hazelnut, macadamia, pecan, pine, pistachio, walnut, etc.)		X		X
WHEAT PRODUCTS (bran, bread crumbs, cracker meal, farina, graham flour, wheat germ, gluten etc.)		X		X
PEANUTS		X		X
SOYBEAN PRODUCTS (tofu, miso, soy-derived vegetable protein, etc.)		X		X
BARLEY PRODUCTS		X		X
BHA, BHT		X		X
CELERY (root, leaves, stalk)		X		X
CHOCOLATE PRODUCTS		X		X
FD&C COLORS (Yellow #5, etc.)		X		X
HYDROLYZED ANIMAL PROTEIN		X		X
HYDROLYZED PLANT PROTEIN		X		X
3-MCPD (MONOCHLOROPROPYLDIOL)		X		X
MEAT & MEAT DERIVATIVES (beef, pork)		X		X
MONOSODIUM GLUTAMATE		X		X
OAT PRODUCTS		X		X
RYE PRODUCTS		X		X
SEEDS (cottonseed, poppy, sesame, sunflower, etc.)		X		X
SULFITES		X		X

There are no allergens present in our yeast manufacturing facilities. Allergens present in our dough conditioner blending operation are kept in separate buildings.

Robert Biwersi
Director, Quality Assurance

12/06

MATERIAL SAFETY DATA SHEET
RED STAR YEAST CO., LLC
MILWAUKEE, WISCONSIN

IDENTITY (As used on Label and List) RED STAR® Active Dry Yeast	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
----------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------

Section I - General Information

Manufacturer's Name Lesaffre Yeast Corporation	Emergency Phone Number 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 7475 West Main St Milwaukee, WI 53214	Telephone Number for Information (414) 615-4085
	Date Prepared: Dec 2006

Section II - Hazard Ingredients/Identity Information

Other Limits Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Recommended % (Optional)
No known hazardous ingredients present.

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water: Dispersible			
Appearance and Odor: Ivory-tan, moist, yeasty, semi-solid			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL	UEL
Extinguishing Media: N/A			
Special Fire Fighting Procedures: None			
Unusual Fire and Explosion Hazards: None			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid):			
Hazardous Decomposition or Byproducts:			
Hazardous Polymerization	May Occur		Conditions to Avoid:
	Will Not Occur		

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic): Respiring yeast generates carbon dioxide. Do not store in air-tight container. Over exposure to carbon dioxide gas may cause asphyxiation. (Refer to Carbon Dioxide MSDS attached).			
Carcinogenicity: No	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms of Exposure: Over exposure to carbon dioxide include: stupor, dizziness, unconsciousness, death.			
Medical Conditions Generally Aggravated by Exposure: None known for compressed yeast; however, over exposure to carbon dioxide can aggravate several medical conditions. (Refer to carbon dioxide MSDS attached).			
Emergency and First Aid Procedures: If exposed to carbon dioxide, remove to fresh air. Give respiratory support if needed. Get medical aid.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: None suggested
Waste Disposal Method: Normal methods.
Precautions to Be Taken in Handling and Storing: Do not store in air-tight containers due to potential for compressed yeast to respire and generate dangerous carbon dioxide gas.
Other Precautions:

Section VIII - Control Measures

Respiratory Protection (Specify Type): Confined spaces which held compressed yeast could potentially contain carbon dioxide gas. Use NIOSH/MSHA approved self-contained breathing apparatus or supplied air respirator if oxygen content is below 19%. Use in accordance with 29CFR1910.134 and 29CFR1910. (Refer to MSDS for carbon dioxide.)		
Ventilation:	Local Exhaust Use adequate mechanical ventilation.	Special
	Mechanical (General)	Other
Protective Gloves: Work	Eye Protection: Safety Glasses Suggested	
Other Protective Clothing or Equipment: None normally required.		
Work/Hygienic Practices: Use Good Personal Hygiene and Good Housekeeping.		