

LESAFFRE YEAST CORPORATION

RED STAR[®] ACTIVE DRY YEAST

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

Red Star[®] Active Dry Yeast is a special culture of *Saccharomyces cerevisiae*. The moisture is removed in such a way that cell viability and leavening power are retained. This product is designed to be rehydrated prior to use.

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, sorbitan monostearate

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	
15700	12 – 2 lb	18”	9 3/8”	6 5/8”	0.65
15710	12 – 2lb (special cases)	18”	9 3/8”	6 5/8”	0.65
15800	50 lb	20 1/4”	15 1/2”	7 1/4”	1.3
15903	20 – 1 lb	9 13/16”	13 1/2”	7 5/8”	0.6

PALLET INFORMATION:					
Item Number	Pallet Configuration	Pallet Dimensions			Cubic Feet
		Height	Length	Width	
15700	80Cases (5 layers of 16)	53"	48"	40"	58
15710	80 Cases (5 layers of 16)	53"	48"	40"	58
15800	45 Cases (5 layers of 6, 3 layers of 5)	67"	48"	40"	74
15903	105 Cases (7 layers of 15)	59"	48"	40"	65

SHELF LIFE & STORAGE:
 Red Star[®] Active Dry Yeast has a shelf life of **24 Months** if stored at **< 80° F.** Product code 15800 has a shelf life of **18 months.**

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 363/2 – Material tracking code

USAGE:
 Red Star[®] Active Dry Yeast can be used in all yeast-leavened goods with either straight or sponge doughs. 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.).

12/06

LESAFFRE YEAST CORPORATION

NUTRIENT INFORMATION

PRODUCT NAME	Red Star Active Dry Yeast
PRODUCT CODE (S)	15700, 15710, 15800,15903
COMPANY	Lesaffre Yeast Corporation
ADDRESS	7475 West Main St Milwaukee, WI 53214
PHONE / FAX	414-615-4085 / 414-615-4003
CONTACT	Robert Bowersi – 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, sorbitan monostearate

12/06

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

LESAFFRE YEAST CORPORATION

ALLERGEN & SENSITIVE COMPONENTS

PRODUCT NAME	Red Star Active Dry Yeast			
PRODUCT CODES	15700, 15710,15800,15903			
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.		