

Safety Data Sheet (SDS)

Kirby Thermo Stable Yeast Blend

SECTION 1: IDENTIFICATION

PRODUCT NAME	Kirby Thermal Stable Yeast Blend
SDS NUMBER	Feed
INTENDED USE:	Feed
MANUFACTURER:	Kirby Agri, Inc. 500 Running Pump Road Lancaster, PA 17601
EMERGENCY HEALTH AND SAFETY NUMBER:	
SDS INFORMATION:	PHONE: 717-299-2541 EMAIL: john@kirbyagri.com URL: www.kirbyagri.com

SECTION 2: HAZARD(S) IDENTIFICATION

Classification: Combustible Dust

Signal Word: Warning

Hazard Statement(S):

Class 2b eye irritant.

May cause breathing difficulties if inhaled.

May create a flash fire or explosion hazard if dust of certain particle size is suspended in air at sufficient concentration in a confined space and exposed to an ignition source

Precautionary Statement(S): May be mechanical eye irritant. Rinse eyes with water for several minutes. Avoid breathing dust. Excessive inhalation may affect nose throat, and lungs. Feed dust may burn if suspended in air and may create a flash fire/ explosion hazard. Avoid ignition sources.

Emergency Overview: May be mechanical irritant to eyes. Excessive inhalation of feed dusts may affect nose throat, and lungs. May form combustible dust concentration in air; see “explosion hazard” below.

Explosion Hazard: Feed is generally considered not hazardous, but dust generated through downstream activities that may reduce its particle size (e.g., shipping, handling, transfer to bins, etc.) May create a hazardous condition. If exposed to an ignition source, feed dust may burn. Airborne dust in sufficient concentrations when exposed to an ignition source may flash or, in a confined situation, may fuel an explosion.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	CONCENTRATION
Dust from prepared animal feeds (Grains, Plant Proteins, Vitamins and Minerals)	Not assigned	100%

Contains a proprietary blend including some or all of the following: yeast, bacteria, mos and enzymes on a distillers, limestone or yeast culture carrier.

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures

Inhalation: Remove Person from exposure. Seek medical attention for any breathing difficulty.

Ingestion: If swallowed, give several glasses of water to dilute. Never give anything by mouth to an unconscious person.

Skin Contact: Wash affected skin with soap and water.

Eye Contact: Flush eyes with water. Seek medical attention as needed.

SECTION 5: FIRE FIGHTING MEASURES

Hazardous Combustion Products: Oxides of Carbon.

Special Fire Fighting Procedures: Extinguish with water fog, dry chemical powders or foam. Do not use strong streams of water or dry chemical if dust can be dispersed into the air. Dust placed in suspension with an ignition source present may flash or explode.

Unusual Fire or Explosion Hazards: Explosion hazard may exist for combustible dusts of certain particle size and moisture content when suspended in air at certain concentrations and subjected to an ignition source.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean up with soft bristle broom(s) or a vacuum approved for a class ii hazardous location. Dust deposits should be maintained to a minimum on surfaces, as these could form an explosive mixture if they are released into the atmosphere in sufficient concentration. avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air in the presence of ignition source should not be allowed). non-sparking tools should be used.

SECTION 7: HANDLING AND STORAGE

Avoid dispensing dust in air and exposure to potential ignition sources. remove feed dust from area/processing equipment prior to using any heat producing equipment such as arc welders, cutting torches and spark/heat producing tools such as portable surface grinders.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: May cause irritation of the nasal membranes or the upper respiratory tract. If dust exceeds the nuisance level. Wear an approved niosh dust respirator whenever dust concentrations in the work area are above acgih tlv/osha pels.

Ventilation: Local exhaust if needed.

Mechanical (General): If needed. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work areas. Use only appropriately classified electrical equipment and powered industrial trucks.

Protective Gloves: N/A

Eye Protection: Safety glasses / goggles suggested in dusty conditions.

Work/ Hygienic Practices: Good personal hygiene practices should be followed. Wash hands and face before eating, drinking, etc.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – continued.

Avoid dust accumulation and control ignition sources. Where appropriate, employ grounding, venting, and explosion relief provisions in accordance with accepted engineering practices in processes capable of generating dust and/or static electricity. Avoid accumulation of dust on surfaces to prevent secondary dust explosions. Refer to appropriate osha, nfpfa and applicable standards

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance:	Tan to Dark Brown
Odor:	Variable
Odor threshold	No information available
pH @ 25°C:	No information available
Melting Point:	No information available
Flash Point:	Variable
Auto Ignition Temperature	No information available
Evaporation Rate:	No information available
Flammability:	No information available
Vapor Pressure:	No information available
Specific Gravity:	No information available
Bulk Density:	Variable
Solubility in Water:	No information available
Auto-Ignition Temperature:	No information available
LEL	No information available
UEL	No Information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.
Chemical stability:	Dust clouds can be explosive.
Possibility of Hazardous Reactions:	None known
Conditions to avoid:	Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.
Incompatible materials:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Products:	Carbon oxide (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure: See First Aid discussion above.

Numerical Measures of Toxicity: Not available

Carcinogen Listing: NTP - Not classified.

Acute: may be mechanical irritant to skin and eyes. Excessive inhalation of feed dusts may affect the nose, throat, and lungs.

Chronic: Repeated and prolonged inhalation of feed dusts may affect the respiratory system. Smokers have an increased risk of respiratory effects.

Signs and symptoms of exposure: Irritation to the skin, eyes, nose or throat may occur. Some people may occasionally experience coughing.

Medical conditions generally aggravated by exposure: Allergies and respiratory ailments.

SECTION 12: ECOLOGICAL INFORMATION: (NON-MANDATORY)

SECTION 13: DISPOSAL CONSIDERATIONS: (NON-MANDATORY)

SECTION 14: TRANSPORT INFORMATION: (NON-MANDATORY)

SECTION 15: REGULATORY INFORMATION:

Section (b)(5)(iii) of the HCS (CFR 1910.1200) exempts food, including feed and therefore any associated feed dust, from the labeling requirements of the HCS since the food/feed is subject to the labeling requirements of the food & drug administration.

SECTION 16: OTHER INFORMATION

Seller makes no warranty, expressed or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Kirby Agri, Inc. except that the product shall conform to contracted specifications. The information provided herein is believed by Kirby Agri, Inc. to be accurate at the time of preparation. This SDS is prepared from sources believed to be reliable; however, it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product with respect to which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

Created Nov. 17, 2015