



Safety Data Sheet

Section 1 – Product and Company Identification

Manufacturer: Hord Livestock Co., LLC.
Address: 887 State Route 98
Bucyrus, OH 44820
Phone Number: 419-562-5934

Product Name: Feeds
SDS Name: Feed
Synonyms/Other Names:
Intended Use: Food
Manufacturer: Various
Emergency Phone Number: 419-562-5934

Section 2 – Hazards Identification

Classification: Organic Dust

Label Elements:

Signal Word: N/A due to FDA labeling exemption

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 a 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 (i.e. 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

<u>Component</u>	<u>CAS #</u>	<u>Concentrations</u>
Dust from Prepared Animal feeds (grains, Plant and/or animal proteins, vitamins, and minerals	N/A	up to 100%
Calcium Carbonate	1317-65-3	0-2%

Section 4 – 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 area with soap and water.

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

Section 5 – Firefighting Measures

Flash Point (Method):	N/A	
Flammable Limits:	LEL: Unknown	UEL: Unknown
Auto ignition Temperature:	Unknown	
Hazardous Combustion Products:	Oxides of Carbon	

Special Firefighting Procedures: Extinguish with water fog, dry chemical powders, or foam. Don 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.

Usual Fire and Explosion Hazards: **FEED IS NOT EXPLOSIVE.** Fine dust dispersed in air at a sufficient concentration may ignite if exposed to an ignition source. Airborne dust in sufficient concentrations, when exposed to an ignition source, may flash or, in a confined situation, may fuel an explosion.

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 dusty surfaces with compressed air in the presence of an ignition source should not be allowed). Non-sparking tools should be used.

Section 7 – Handling and Storage

Avoid dispersing 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. According to 29 CFR 1910.272(F) a hot work permit is required.

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.

<u>Other Grains</u>	<u>OSHA PEL</u>		<u>ACHIG TLV</u>
Grains in Feed	15 mg/M3 (Total)	5 mg/M3 (Respirable)	10 mg/M3*
Calcium Carbonate	15 mg/M3	5 mg/M3 (Respirable)	10 mg/M3

*This TLV applies to nuisance particulates. The grain industry believes there is currently inadequate data to support this TLV.

Ventilation: Local Exhaust: If needed

Mechanical (General): If needed

Ensure dust handling systems (such as 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. Avoid excessive 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, NFPA, and applicable standards.

Section 9 – Physical and Chemical Properties

Flash Point (Method):	N/A	
Flammable Limits:	LEL: Variable	UEL: Unknown
Auto ignition Temperature:	Unknown	
Appearance:	Tan to dark brown in appearance with perhaps a sweet odor	
Solid Contents:	100%	

Upper/Lower Flammability or Explosive Limits: When dispersed into the air in sufficient concentrations, grain dust can explode in the presence of an ignition source. Do not allow dust to become dispersed into the air, even by the extinguishing agent. Minimum explosive concentration is 55 g/M3. However, moisture content, particle size, caloric properties, and specific ingredients also affect the explosiveness of grain dust.

Section 10 – Stability and Reactivity

Stability:	Stable
Condition to avoid:	N/A
Incompatibility (materials to avoid):	None
Hazardous Decomposition/byproducts:	None Known
Hazardous Polymerization:	Will not occur
Condition to avoid:	N/A
Reactivity:	N/A

Section 11 – Toxicological Information

Routes of Exposure:	Inhalation	X
	Skin	X
	Eyes	X
	Ingestion	Unlikely
	Carcinogenicity	
	NTP	No
	ARC Monographs	No
	OSHA Regulated	No

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

Chronic: Repeated and prolonged exposure to 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

All electrical equipment must be suitable for use in hazardous atmospheres involving combustible dust in accordance with 29 CFR 1910.307. The National Electric Code (NEC), NFPA 70, contains guidelines for determining the type and design of equipment and installation, which will meet this requirement.

Section (B)(5)(III) of the HCS (29 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 and Drug Administration.

Section 16 – Other Information

Prepared by: Hord Livestock Co., INC.

Revision Date: 05/13/2015

Animal Feed is comprised of whole and processed grains and may contain added vitamins and minerals. Feed components generally produce a limited amount of dust in manufacturing and handling of the material.

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