

MATERIAL SAFETY DATA SHEET

0.1. PRODUCT NAME:	Birthright Pig Milkreplacer
0.2. PRODUCTNUMBER:	M5-020 - M5-036
0.3. REVISION DATE:	01-25-2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1.	Manufacturer:	Esmilco, Inc
1.2.	Address:	209 Steel Road, Fall River, WI 53932
1.3.	Phone / Fax / Email:	(920) 484-5800 / (920) 484-5801 / info@esmilco.com
1.4.	Intended Use:	Feed
1.5.	24 Hour Emergency Response Information:	Chemtrec 1-800-424-9300 (in the US) Canutec (613) 996-6666 (in Canada)
1.6.	Restrictions on use:	None identified

2. HAZARDS IDENTIFICATION

2.1.	Classification:	Organic Dust, Liquid
2.2.	Label Elements:	Signal Word: N/A due to FDA labeling exemption
2.3.	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.
2.4.	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.
2.5.	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.
2.6.	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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1.	<p>A mixture of feed ingredients, all generally recognized as safe for livestock feed by AAFCO (American Association of Feed Control Officials).</p> <p>Dust from prepared animal feeds (grains, plant and/or animal proteins, vitamins and minerals): 100%</p> <p>For more specific ingredients refer to label.</p>	
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4. FIRST AID MEASURES

4.1.	General Advice:	First Aid personnel should pay attention to their own safety. Remove contaminated clothing.
4.2.	Inhalation:	Remove person from exposure. Seek medical attention for any breathing difficulty.
4.3.	Ingestion:	If swallowed, give several glasses of water to dilute. Never give anything by mouth to an unconscious person. May cause abdominal pain and nausea. Cobalt, Copper, Zinc & Selenium salts may have oral human lethal doses in the range of 50 to 500 mg/kg.
4.4.	Skin Contact:	Wash affected skin with soap and water.
4.5.	Eye Contact:	Flush eyes with water for at least 15 minutes. Seek medical attention as needed.

5. FIRE FIGHTING MEASURES

5.1.	Hazardous Combustion Products:	Oxides of carbon
5.2.	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 sources present may flash or explode.
5.3.	Unusual Fire and 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.

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.

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.

Store in dry location.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.	Respiratory Protection:	<p>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/OSHAPELS.</p> <p>**OSHA PEL: 8 hour time weighted average of 15 mg/m³ total dust and 5 mg/m³ respirable dust. One or more of the mineral ingredients in this premix exceed 1% of the total mixture, therefore the entire mixture must be classified as hazardous according to 29 CFR 1910-1200 (d)(5)(ii).</p>
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8.2.	Ventilation:	Local exhaust (if needed)
8.3.	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.
8.4.	Protective Gloves:	N/A
8.5.	Eye Protection:	Safety glasses / goggles suggested in dusty conditions
8.6.	Work / Hygienic Practices:	Good personal hygiene practices should be followed. Wash hands and face before eating, drinking, etc. 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, NFPA and applicable standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Flash Point (method):	N/A
9.2.	Flammable Limits:	LEL: Variable UEL: Unknown
9.3.	Autoignition Temperature:	Unknown
9.4.	Appearance:	Varies depending on ingredients. Typical: Cream to white colored powder with sweet aroma.
9.5.	Solid Contents:	100%

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10. STABILITY AND REACTIVITY

10.1.	Stability	Unstable: N/A	Stable: X	Condition to Avoid: N/A
10.2.	Incompatibility (materials to avoid):	None known		
10.3.	Hazardous Decomposition or Byproducts:	None known		
10.4.	Hazardous Polymerization:	May occur: N/A	Will not occur: X	
		Condition to Avoid: Extreme Heat		

11. TOXICOLOGICAL INFORMATION

11.1.	Routes of Entry:	Inhalation: X	Skin: X	Eyes: X	Ingestion: Unlikely
11.2.	Carcinogenicity:	NTP: No	ARC Monographs: No	OSHA Regulated: No	
11.3.	Acute:	May be mechanical irritant to skin and eyes. Excessive inhalation of feed dusts may affect the nose, throat, and lungs.			
11.4.	Chronic:	Repeated and prolonged inhalation of feed dusts may affect the respiratory system. Smokers have an increased risk of respiratory effects.			
11.5.	Signs and Symptoms of Exposure:	Irritation to the skin, eyes, nose or throat may occur. Some people may occasionally experience coughing.			
11.6.	Medical Conditions Generally Aggravated by Exposure:	Allergies and respiratory ailments.			

12. ECOLOGICAL INFORMATION

Non-Mandatory

13. DISPOSAL CONSIDERATIONS

Non-Mandatory

14. DISPOSAL CONSIDERATIONS

Non-Mandatory

15. REGULATORY INFORMATION

Non-Mandatory

This product may contain the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning & Community Right to Know Act of 1986 and of 40 CFR 372-.45:

<u>Component</u>	<u>CAS #</u>	<u>% by Weight**</u>
Cobalt Compounds	NA	0% - 1%
Copper Compounds	NA	0% - 1%
Manganese Compounds	NA	0% - 1%
Zinc Compounds	NA	0% - 1%

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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.

16. OTHER INFORMATION

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.

The information contained in this Safety Data Sheet, to the best of our knowledge, is believed to be accurate and reliable. However, it is without a warranty of any kind, expressed or implied and it is the user's obligation to determine the conditions of safe use of this product. For more specific information, please see MSDS's for each ingredient in the mixture.