

# NON-RUMINANT MEAT MEAL (UNION CITY)

## TYPICAL ANALYSIS

Crude Protein	50.00%
Crude Fat	14.00%
Crude Fiber	2.00%
Ash	23.00%
Moisture	5.00%
Grind	99% thru #10
Color	Brown
Metabolizable Energy	1,300 Kcal/kg

## MINERALS AND VITAMINS

Calcium	8.00%
Phosphorous	3.50%
Available Phosphorous	3.50%
Salt Equivalent	2.00%
Sodium	0.80%
Chloride	1.20%
Potassium	0.50%
Choline	2,700 mg/kg

## AMINO ACID PROFILE

Aspartic Acid	2.26%
Threonine	1.72%
Serine	1.09%
Glutamic Acid	5.30%
Proline	4.19%
Glycine	6.45%
Alanine	4.04%
Cystine	0.34%
Methionine	0.72%
Valine	2.05%
Isoleucine	1.39%
Leucine	2.94%
Tyrosine	1.23%
Phenylalanine	5.93%
Histidine	1.03%
Lysine	2.90%
Arginine	3.33%
Tryptophan	0.30%
Taurine	0.16%
Math+Cystine	1.06%

Analysis are updated periodically and may vary slightly from previous versions.

Approved plant of:

- Animal Protein Producers Institute (APPI) Code of Practice Voluntary Salmonella Reduction Program
- Food & Drug Administration (FDA) Registered

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## MATERIAL SAFETY DATA SHEET: NON-RUMINANT MEAT MEAL

**Preparer's Name:** Darling Ingredients Inc. / Griffin Industries LLC

**Date Prepared:** July 10, 2012

**Synonyms:**

**CAS#:** N/A

Section I: General Information			
Manufacturer's Name:	Darling Ingredients Inc.	Griffin Industries LLC	Phone Numbers:
Address:	251 O'Connor Ridge Blvd. Suite 300 Irving, TX 75038	4221 Alexandria Pike Cold Spring, KY 41076	General Information & Emergency Contact: (515) 289-3718 (859) 472-7363
Substance:	Dehydrated Porcine By-Products		
Chemical Family:	Protein Supplement with associated fatty and mineral components		
Molecular Formula:	N/A		
Molecular Weight:	N/A		
CAS Number:	N/A		

Section II: Hazardous Ingredients	
Hazardous Liquids, Solids, or Gases:	This product contains no Hazardous Components as described in the Hazard Communication Standard. This product has trade name of Non-Ruminant Meat Meal. This product has components of dehydrated porcine protein and bone and dehydrated porcine blood protein at 100 percent.
Other Contaminants:	None
Exposure Limits:	N/A

Section III: Physical Data	
Boiling Point:	Decomposes
Vapor Pressure:	N/A
Vapor Density:	N/A
Solubility in Water:	Insoluble
Appearance and Odor:	Light tan to medium brown solid, characteristic odor
Specific Gravity (H <sub>2</sub> O = 1):	0.50 average
Melting Point:	Decomposes
Percent Volatile by Volume:	Not determined
Evaporation Rate:	0
Butyl Acetate:	1

Section IV: Fire and Explosion Hazard Data	
Flash Point:	460 F, Open Cup (fat content only)
Flammable Limits:	N/A
LEL:	N/A
UEL:	N/A
Extinguishing Media:	Type A or ABC
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	Dust accumulation in enclosed space may present explosion hazard

Section V: Health Hazard Data	
Emergency and First Aid Procedures:	Wash Well <b>Ingestion:</b> N/A <b>Inhalation:</b> N/A <b>Eye Contact:</b> N/A <b>Skin Contact:</b> N/A
OSHA Regulated	No

<b>Section VI: Reactivity Data</b>	
Unstable or Stable:	Stable
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur
Conditions to avoid:	None

<b>Section VII: Spill or Leak Procedures</b>	
Steps to be taken in case material is released or spilled:	Sweep up spilled meal and dispose of in Sanitary Landfill, or contact DAR PRO Solutions concerning reprocessing.
Waste disposal method:	Send to Sanitary Landfill or contact DAR PRO Solutions as above. Dispose in accordance with all local, state and federal regulations.
Precautions to be taken in handling and storing:	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dust do not accumulate on surfaces.
Other precautions:	None

<b>Section VIII: Special Protection Information</b>	
Respiratory Protection:	Dust mask in enclosed space
Ventilation:	Ventilate confined spaces before entering
Protective Gloves:	Recommended
Eye Protection:	Recommended
Other Protective Equipment:	N/A
Work/Hygienic Practices:	After handling wash hands with soap and warm water.

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