

SAFETY DATA SHEETS

This SDS packet was issued with item:

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N/A



Regulatory Compliance Program

Manna Pro Products LLC – Confidential *

707 Spirit 40 Park Dr, Ste 150, St. Louis, MO 63005

Safety Data Sheet (SDS) Requirements

Customers of Feed & Feed Ingredients

Dear Customer,

Manna Pro Products, LLC is committed to maintaining the highest levels of compliance to all of our regulatory requirements, including OSHA's Hazard Communication Standard (HCS).

Effective June 1, 2015, the newly-revised OSHA standard states that all shipped raw grains, oilseeds, and bagged and bulk feeds and feed ingredients must comply with OSHA's requirement to issue a revised safety data sheet (SDS) with the first shipment. OSHA has stated that an SDS is necessary for animal feed based on a court decision confirming that grain dust meets OSHA's definition of a "hazardous chemical".

To facilitate compliance to this new requirement, Manna Pro has created an SDS for Feed in a format that was developed jointly by the National Grain & Feed Association (NGFA) and the American Feed Industry Association (AFIA). Guidance states that this general SDS document is compliant for multiple products if the potential hazards are essentially the same, even though the specific composition varies between products.

Included with this letter is Manna Pro's SDS for Feed. A revised SDS for Feed will be provided if any changes to a specific product being shipped require changes to the SDS.

Sincerely,

Dr. Rob McCoy
VP, Nutrition & Quality
Manna Pro Products LLC
636-681-1700 (o)
robm@mannapro.com

Attachment:

- SDS for Feed

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Safety Data Sheet for Feed Manna Pro Products, LLC

SECTION 1: IDENTIFICATION	
PRODUCT NAME:	FEEDS
SDS NUMBER:	FEED
SYNONYMS/OTHER MEANS OF IDENTIFICATION:	
INTENDED USE:	FEED AND OTHER
MANUFACTURER:	VARIOUS
EMERGENCY HEALTH AND SAFETY NUMBER:	
SDS INFORMATION:	PHONE: (636) 681-1700 E-MAIL: leannm@mannaapro.com URL: www.mannaapro.com
SECTION 2: HAZARD(S) IDENTIFICATION	
UNCLASSIFIED HAZARD	
<p><u>LABEL ELEMENTS:</u> SIGNAL WORD: N/A DUE TO FDA LABELING EXEMPTION</p>	
<p><u>HAZARD STATEMENT(S):</u> 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.</p>	
<p><u>PRECAUTIONARY STATEMENT(S):</u> 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.</p>	
<p><u>EMERGENCY OVERVIEW:</u> 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.</p>	
<p><u>EXPLOSION HAZARD:</u> FEED IS GENERALLY CONSIDERED NOT HAZARDOUS, BUT DUST GENERATED THROUGH DOWNSTREAM ACTIVITIES THAT MAY GENERATE EXCESSIVE DUST (E.G., SHIPPING, HANDLING, TRANSFER TO BINS, ETC.) MAY CREATE A HAZARDOUS CONDITION.</p>	
<p>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.</p>	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
COMPONENT	CASRN	CONCENTRATION
DUST FROM PREPARED ANIMAL FEEDS (GRAINS, PLANT AND/OR ANIMAL PRODUCTS, VITAMINS, MINERALS, AND FEED ADDITIVES) 100%		

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 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 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.		
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		
OSHA PEL 15 MG/M3 (TOTAL) 5 MG/M3 (RESPIRABLE)	ACGIH TLV 10 MG/M3*	
<i>*THIS TLV APPLIES TO NUISANCE PARTICULATES. THE GRAIN INDUSTRY BELIEVES THERE IS CURRENTLY INADEQUATE DATA TO SUPPORT THIS TLV.</i>		
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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (METHOD): N/A

FLAMMABLE LIMITS: LEL: VARIABLE UEL: UNKNOWN **AUTOIGNITION TEMPERATURE:** UNKNOWN

APPEARANCE: VARIABLE COLOR TYPICALLY RANGING FROM TAN TO DARK BROWN OR GREEN; CAN BE CHARACTERISTIC OF COLOR ADDITIVES, IF USED. AROMA TYPICALLY CHARACTERISTIC OF GRAIN; CAN BE CHARACTERISTIC OF FLAVOR ADDITIVES, IF USED.

SOLID CONTENTS: 100%

SECTION 10: STABILITY AND REACTIVITY

STABILITY: UNSTABLE: **CONDITION TO AVOID:** N/A
STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE KNOWN

HAZARDOUS POLYMERIZATION: MAY OCCUR: **CONDITION TO AVOID:** N/A
WILL NOT OCCUR: X

SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: 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 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: (NON-MANDATORY)
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
<i>ANIMAL FEED IS COMPRISED OF WHOLE AND PROCESSED GRAINS AND MAY CONTAIN PLANT AND/OR ANIMAL PRODUCTS, VITAMINS, MINERALS, AND FEED ADDITIVES. FEED COMPONENTS GENERALLY PRODUCE A LIMITED AMOUNT OF DUST IN MANUFACTURING AND HANDLING OF THE MATERIAL.</i>
THIS SDS IS GENERIC AND MAY NOT APPLY TO ALL FEED FORMULATIONS.