

Material Safety Data Sheet Of Meat and Bone Meal

Section 1: Product And Company Identification

- **Product identifiers**

Product name: Meat and Bone Meal
Product Number: FPP-3
Brand: Pangoo
CAS-No.: 68920-45-6

- **Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Feed for animals

- **Details of the supplier of the safety data sheet**

Company : Pangoo Biotech Hebei Co., Ltd.
Telephone : 0086-317-8585021
Fax : 0086-317-3171801

- **Emergency telephone number**

Emergency Phone : 0086-317-8585021

Section 2: Hazards Identification

- **Classification of the substance or mixture**

Not a hazardous substance or mixture.

- **GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

- **Hazards not otherwise classified (HNOC) or not covered by GHS – none**

Section 3: Composition/Information On Ingredients

- **Mixtures**

- The components are not hazardous or are below required disclosure limits.

Section 4: First-Aid Measures

- **Description of first aid measures**

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

In case of eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

- **Most important symptoms and effects, both acute and delayed**

Direct contact with eyes may cause temporary irritation.

- **Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically.

Section 5: Fire-fighting Measures

- **Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Apply extinguishing media carefully to avoid creating airborne dust.

- **Unsuitable extinguishing media** None known.

- **Specific hazards arising from the chemical**

Dust may form explosive mixture with air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

- **Advice for firefighters**

Wear self-contained breathing apparatus for fire fighting if necessary.

- **Further information**

No data available

- **Fire fighting equipment/instructions**

In the event of fire, cool tanks with water spray.

- **Specific methods**

Cool containers exposed to flames with water until well after the fire is out.

- **General fire hazards**

No unusual fire or explosion hazards noted.

Section 6: Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

- **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

- **Methods and materials for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

• **Section 7: Handling And Storage**

• **Precautions for safe handling**

Use with adequate ventilation. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid direct contact with eyes.

• **Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Section 8: Exposure Controls/Personal Protection

• **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Dust	PEL	5 mg/m ³ 15 mg/m ³	Respirable fraction. Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)			
Components	Type	Value	Form
Dust	TWA	5 mg/m ³ 15 mg/m ³	Respirable fraction. Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)			
Components	Type	Value	Form
		50 mppcf	Total dust.

		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Values			
Components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable particles. Inhalable particles.

Biological limit values

No biological exposure limits noted for the ingredient(s).

• Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. 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 area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

• Information on basic physical and chemical properties

Appearance	Light tan to brown solid.
Odour	Characteristic odor.
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	460.0 °F (237.8 °C) Open Cup (fat content only)
Evaporation rate	0 BuAc
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.5 g/cm ³
Water solubility	Insoluble
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Section 10: Stability and Reactivity

• Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

• Chemical stability

Material is stable under normal conditions.

• Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

• Conditions to avoid

Keep away from heat, sparks and open flame. Minimize dust generation and accumulation.
Contact with incompatible materials. Humidity.

- **Incompatible materials**
Strong oxidizing agents.
- **Hazardous decomposition products**
Carbon oxides.

Section 11: Toxicological Information

- **Information on toxicological effects**

Acute toxicity

Not available.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.]

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Ames test

Salmonella typhimurium

Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

- **Ecotoxicity**
Not expected to be harmful to aquatic organisms.
- **Persistence and degradability**
No data is available on the degradability of this product.
- **Bioaccumulative potential**
No data available
- **Mobility in soil**
No data available
- **Results of PBT and vPvB assessment**
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **Other adverse effects**
No data available

Section 13: Disposal Considerations

- **Disposal instructions**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazardous waste code**
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
- **Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- **Contaminated packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transport Information

- **DOT (US)**
Not dangerous goods
- **IMDG**
Not dangerous goods
- **IATA**
Not dangerous goods

Section 15: Regulatory Information

- **SARA 302 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components**
This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De minimise) reporting levels established by SARA Title III, Section 313.

- **SARA 311/312 Hazards**

No SARA Hazards

- **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

- **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

- "IMO" : not dangerous for sea transport

Disclaimer

Additional references can be taken from the label or the product description. The information given here is correct to the best of our knowledge at the time of writing this sheet. No responsibility can be taken for improper use or handling of the product.