

Material Safety Data Sheet

Meat and Bone Meal

Section 1 - Product Identification

Synonym : N.A.
Chemical Formula : N.A.
Company Identification : Tradeasia International Pte. Limited
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Recommended use : For animal consumption

Section 2 – Hazards Identification

2.1. Environmental hazards

No known hazards

2.2. Human health hazards

No known hazards

Section 3 – Composition/Information on Ingredients

3.1 Composition comments

Ingredients : Meat and bone meal 100%
Hazardous Components : None
CAS No. : N.A

Section 4 – First-Aid Measures

4.1. Description of first aid measures

Eye Contact

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

Skin Contact

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

Inhalation

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

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Section 5 – Fire Fighting Measures

5.1. Fire hazard

No unusual fire or explosion hazards noted.

5.2. Suitable extinguishing media

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

5.3. Unsuitable extinguishing media

None known.

5.4. 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.

5.5. Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6 – Accidental Release Measures

6.1. Personal precautions

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.

6.2. Protective equipment

See section 8 of the MSDS

6.3. Environmental precautions

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

6.4. Methods and material 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 the 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

7.1. 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.

7.2. 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 the 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

8.1. 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.

8.2. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Body protection

Wear suitable gloves and protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Work/hygiene practice

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form	: Solid
Color	: Light tan to brown
pH (10%, 25°C)	: 6.5-7.5
Boiling Point/Range	: N.A.
Melting Point/Range	: N.A.
Decomposition Temperature	: N.A.
Specific Gravity (H ₂ O = 1)	: N.A.

Water Solubility (25°C) : N.A.
Evaporation Rate : N/A.
Relative Density : 0.5 g/cm³

Section 10 – Stability and Reactivity

10.1. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.2. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.3. Conditions to avoid:

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

10.4. Reactivity

Material is stable under normal conditions.

10.5. Hazardous decomposition products

Carbon oxides.

Section 11 – Toxicological Information

11.1 Health effects associated with ingredients

Acute Toxicity : None established

Chronic Effects of

Overexposure : None established

Medical Conditions Generally

Aggravated by Exposure : None

Irritancy Skin : May cause skin irritation.

Eyes : May cause eye irritation.

Ingestion : Ingestion may cause irritation and malaise.

Inhalation : No adverse effects due to inhalation are expected.

Carcinogenicity : None

Reproductive Toxicity : N/A

Teratogenicity : N/A

Mutagenicity : N/A

Name of toxicologically synergistic products : N/A

Specific target organ

toxicity - single exposure : N/A

Specific target organ

toxicity - repeated exposure : N/A

Section 12 – Ecological Information

12.1. Ecotoxicity

Not expected to be harmful to aquatic organisms.

12.2. Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

No data available

12.5. Other adverse effects

None known.

Section 13 – Disposal Considerations

13.1. 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.

13.2. Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13.3. 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).

13.4. 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	: Not regulated for transport
IATA	: Not regulated for transport
IMDG	: Not regulated for transport
TDG	: Not regulated for transport

Section 15 – Regulatory Information

Not available

Section 16 : Additional Information

16.1. List of abbreviation and acronyms used in this MSDS

MSDS : Material Safety Data Sheets

CAS No : Chemical Abstracts Service number

16.2. Disclaimer of liability

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