



MAGNATAG

A FEED GRADE BY-PASS FAT FOR RUMINANTS

Section 1. Identification

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| PRODUCT IDENTIFIER: | MagnaTAG |
| RECOMMENDED USE: | Rumen Bypass Fats for Dairy Cows |
| DISTRIBUTOR: | Energy Feeds International, LLC 745 85th Ave, Suite A Oakland, CA 94621 Phone: (877) 255-2280 |

24-HOUR MANUFACTURER EMERGENCY PHONE NUMBER: +6012-3863923

Section 2. Hazard(s) Identification

Treat as inert and non-hazardous. No toxic or ill-effects under normal exposure conditions are known. Repeated and prolonged exposure is not known to aggravate medical conditions.

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| INGESTION: | May cause mild stomach upset. |
| SKIN CONTACT: | May cause irritation. No data on sensitivity. |
| EYE CONTACT: | May cause slight irritation. |

Section 3. Composition/Information on Ingredients

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| CHEMICAL COMPOSITION: | Free fatty acids of Palm Oil: Hydrolyzed Vegetable Oil, Feed Grade. |
| STABILIZING/PRESERVATIVE ADDITIVES: | BHT and Ethoxyquin used as a preservative. |

Section 4. First-Aid Measures

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| INGESTION: | Rinse mouth with water. |
| SKIN CONTACT: | Dust off or flush affected area with soap and water. |
| EYE CONTACT: | Check and remove any contact lenses. Flush eyes with water for 10 minutes or until area is clean. |

Seek medical attention if affected area continues to be irritated.

Section 5. Fire-Fighting Measures

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| FLASH POINT: | 115° C / 240° F |
| SMOKE POINT: | Not available. |
| FLAMMABILITY: | May be combustible at high temperatures. |
| HAZARDOUS COMBUSTION PRODUCTS: | Soot, smoke, carbon monoxide. |
| EXTINGUISHING MEDIA: | Dry fire-fighting chemicals, foam, water, carbon dioxide. |
| SPECIAL FIRE FIGHTING PROCEDURES: | Strong water spray could spread burning oil. Water mist or sprinkler is recommended. |

Section 6. Accidental Release Measures

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| IN CASE OF SPILLS OR LEAKS: | Adequate sweeping or vacuum. Do not wash with any base solvents which may result in an exothermic reaction. |
| WASTE DISPOSAL METHODS: | The product is easily bio-degradable. Observe all local, state and federal regulations. |
| PROTECTIVE EQUIPMENT RECOMMENDED: | Face mask or breathing apparatus. |



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Section 7. Handling and Storage

Keep product away from heat and sources of ignition. Keep away from of alkaline bases. Do not ingest.

Section 8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs): Not Applicable/Not Relevant

Threshold Limit Values (TLVs): Not Applicable/Not Relevant

Appropriate engineering controls: Not Applicable/Not Relevant

PERSONAL PROTECTIVE EQUIPMENT: Generally not required.

Exceptions may consider the following:

RESPIRATORY SYSTEM: Wear appropriate respirator when ventilation is inadequate.

SKIN AND BODY: Not necessary

HANDS: Impervious gloves

EYES: Safety glasses or goggles

OTHER/SPECIAL: None required

Section 9. Physical and Chemical Properties

APPEARANCE: Off-white prills of 100-300 microns.

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not Applicable/Not Relevant

ODOR: Fatty fatty acid odor

VAPOR PRESSURE (mmHg): Not Applicable/Not Relevant

ODOR THRESHOLD: Not Applicable/Not Relevant

VAPOR DENSITY: Not Applicable/Not Relevant

pH: Not Applicable/Not Relevant

RELATIVE DENSITY: Not Applicable/Not Relevant

MELTING POINT: 56° C / 132° F

SOLUBILITY IN WATER: Insoluble in water

SOLUBILITY IN SOLVENTS: Hexane, ether, acetone, chloroform, ethanol

BOILING POINT: 300° C

FLASH POINT: 115° C / 240° F

EVAPORATION RATE: Not Applicable/Not Relevant

FLAMMABILITY: May be combustible at high temperatures

PARTITION COEFFICIENT: Not Applicable/Not Relevant

AUTO-IGNITION TEMPERATURE: Not Applicable/Not Relevant

DECOMPOSITION TEMPERATURE: Not Applicable/Not Relevant

VISCOSITY: Not Applicable/Not Relevant

SPECIFIC GRAVITY: 0.50

Section 10. Stability and Reactivity

REACTIVITY: Product is acidic and may react with alkaline bases to form soaps in an exothermic reaction that will emit steam and heat.

CHEMICAL STABILITY: The product is stable under normal ambient temperature and in conditions while in storage and being handled.



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Section 11. Toxicological Information

No known toxicological concerns. Product is non-toxic

Section 12. Ecological Information

Product is readily bio-degradable.

Section 13. Disposal Considerations

This material is not regarded as hazardous waste. Observe all federal, state and local environmental regulations.

Section 14. Transport Information

Non-hazardous to any mode of transport. Observe all federal, state and local environmental regulations as they relate to transportation. Proper sealing and leak proof containers should be used to prevent possible leakages.

Section 15. Regulatory Information

Benign material. Not Applicable/Not Relevant

Section 16. Other Information

Source of Data: Manufacturer

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