

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

- 1.1** Product identifier: MAGNIVA Titanium
1.2 Identified use: Premixture of silage additives
1.3 Supplier details: Lallemand Animal Nutrition, NA
 6120 W. Douglas Ave, Milwaukee, WI 52318
 Tel: 414-464-6440 Email: sds@lallemand.com
1.4 Emergency telephone: Contact your local doctor or hospital.
 In the United States and Canada, call 911

SECTION 2 - HAZARD IDENTIFICATION

2.1 Classification of the substance/mixture according to:

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS section 1.5.2).
- Canadian Hazardous Product Act.
- US Occupational Safety and Health Administration (OSHA)
- Regulation 1272/2008/EC (CLP)

Classification: Respiratory Sensitizer Category 1. Skin/Eye Irritant Category 2.

2.2 Labelling according to the Globally Harmonized System (GHS) and to the Regulation 1272/2008/CE (CLP):

Signal Word: Danger

Hazard Pictogram:



Hazard Statement:

- H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H319 – Causes serious eye irritation.
- H315 – Causes skin irritation.

Precaution Statements:

- P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
- P285 – In case of inadequate ventilation wear respiratory protection.
- P304 + 341 – IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + 351 + 338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302 + 350 – IF ON SKIN: Wash with plenty of cold water/soap.
- P332 + 313 – If skin irritation occurs: Get medical advice/attention.
- P363 – Take off contaminated clothing and wash it before reuse.
- P342 + 311 – If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P501 – Dispose of contents/container according to the local regulations.

2.3 Other Hazards: The substance is not considered as a PBT or VPVB substance.

SECTION 3 - COMPOSITION

Product composition: Live bacteria and enzymes on a sugar carrier

Mixture or substance: mixture.

Ingredient name	CAS no.	CE no.	% of active in mix	IUB	CLP Hazard Classification (Reg. 1272/2008)
Endo-1,4-xylanase	9025-57-4	232-800-2	≤ 7.5%	3.2.1.8	Respiratory Sensitizer Cat.1; H334
Endo-1,3(4)-β-glucanase	62213-14-3	263-462-4	≤ 4%	3.2.1.6	Respiratory Sensitizer Cat.1; H334
Endo-1,4-β-mannanase	37288-54-3	253-446-5	≤ 4%	3.2.1.78	Respiratory Sensitizer Cat.1; H334 Skin Irritant Cat.2; H315 Eye Irritant Cat.2; H319

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

General information: Protection of rescue workers: Wear appropriate individual protective equipment (see Section 8). Transport the affected person into the open air. Remove contaminated shoes and clothing.

Inhalation: In the event of inhalation, take into the open air. Do not allow the person to get cold. Keep the victim resting in a semi-seated position. In the absence of breathing, use artificial respiration. Consult a doctor.

Ingestion: In the event of ingestion, rinse the mouth with water (only if the person is conscious). Consult a doctor if symptoms develop.

Contact with the skin: Rinse thoroughly in running water. Remove contaminated shoes and clothing. Consult a doctor if symptoms develop.

Contact with the eyes: Rinse thoroughly in running water. Consult a doctor if symptoms develop.

First aid facilities: Ensure that automatic eye baths and safety showers are located close to the workstations.

4.2 Most important symptoms and effects, both acute and delayed:

Eye contact: May cause irritation of the eyes (redness).

Skin contact: Prolonged or repeated contact with the skin may cause irritation.

Inhalation: May cause coughing (irritation) or irritate asthma. May cause sensitization. Subsequent chronic or acute exposure in sensitized persons may cause a respiratory allergic reaction, including asthmatic bronchitis, in minutes or delayed.

Ingestion: Ingestion of the product may elicit gastrointestinal problems.

4.3 Indication of any immediate medical attention and special treatment needed:

None. If any symptoms persist, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable: Water, foam, carbon dioxide, dry powder.

Unsuitable: None

5.2 Special hazards arising from the material: None

5.3 Advice to firefighters: Wear a self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires as product powder could be in the air.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with the eyes, skin and clothing. Use appropriate protective equipment (see Section 8).

6.2 Environmental precautions: None**6.3 Methods and material for containment and cleaning up:**

Small accidental spillage or leak: Avoid the formation of dust or spray. Mop up with appropriate material. Place in an appropriate container. Clean the area affected with water.

Large accidental spillage or leak: Avoid the formation of dust or spray. Prevent spillage into the drains, subsoil or confined areas. Contain if necessary.

6.4 References to other sections: See section 8 for individual protective equipment and section 13 for waste disposal.**SECTION 7 - HANDLING AND STORAGE**

7.1 Precautions for safe handling:

Handling: Avoid breathing dust. Avoid contact with eyes.

Occupational hygiene: Wash hands thoroughly after handling. Do not eat, drink or smoke while working. Store work clothing separately. See also section 4 for recommended equipment.

7.2 Conditions for safe storage, including any incompatibilities:

Risks: Not at risk for corrosion, fire, explosion, or chemical reaction.

Place of storage: No special instruction to minimize risks (see above).

Store according to label directions to maintain label guarantees.

Incompatible materials: No known incompatibilities.

Fire/explosion protection: None needed

7.3 Specific end use: Premixture of silage additives

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Exposure limits: No limit

Biological limits: No limit

8.2 Exposure controls:

Engineering:..... None

Eye/face protection:..... Recommended to wear protective glasses in conditions of excessive dusting.

Skin Hand: Gloves are recommended. Wash and dry hands.

Other: None. Wear appropriate clothing for work.

Respiratory protection: None except if ventilation is not sufficient.

Thermal protection: None

Environmental exposure: None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Light tan colored powder

Odour: Not Applicable

Odour threshold:..... Not relevant

pH: Not relevant

Melting point/Freezing point: Not relevant

Initial boiling point and boiling range:..... Not applicable, product is a solid

Flash point:..... Not relevant

Evaporation rate:..... Not applicable, product is a solid

Flammability (solid, gas):..... Not flammable

Upper/lower flammability or explosive limits:..... Not relevant

Vapour pressure:..... Not applicable, product is a solid

Vapour density: Not applicable, product is a solid

Relative density: Not relevant

Solubility:..... Water dispersible

Partition coefficient (n-octanol/water): Not relevant

Auto-ignition temperature: Not relevant

Decomposition temperature:..... Not relevant

Viscosity:..... Not applicable, product is a solid

Explosive properties: Not relevant

Oxidising properties: Not relevant

9.2 Other information: None**SECTION 10 - STABILITY AND REACTIVITY**

10.1 Reactivity:..... Not reactive**10.2 Chemical stability:** Stable**10.3 Possibility of hazardous reactions:** None**10.4 Conditions to avoid:** None**10.5 Incompatible materials:** See section 7**10.6 Hazardous decomposition products:** None**SECTION 11 - TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects:

Acute toxicity:..... No known effects

Skin corrosion/irritation: Possible irritation to skin

Serious eye damage/irritation:..... Possible irritation to eye

Respiratory /Skin sensitization: Possible allergic reaction or sensitization

Germ cell mutagenicity No information available

Carcinogenicity No information available

Reproductive toxicity No information available

STOT-single exposure No information available

STOT-repeated exposure..... No information available

Aspiration hazard No information available
 Chronic effects: Once sensitised, a strong allergic reaction may be triggered upon later exposure to very low levels.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity: No known ecological effects
 12.2 Persistence and degradability: Most ingredients of the product are assumed to be readily biodegradable. Hence it is not expected to persist in the environment.
 12.3 Bioaccumulative potential:..... No risk of bioaccumulation expected.
 12.4 Mobility in soil: No information available
 12.5 Results of PBT and vPvB assessment: Not considered to be a PBT and vPvB substance.
 12.6 Other adverse effects: No adverse effects reported

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

No special disposal method recommended. Follow all applicable local laws for recycling, bagging, and disposal of trash.

SECTION 14 - TRANSPORT INFORMATION

14.1 UN Number: Not relevant
 14.2 UN proper shipping name: Not relevant
 14.3 Transportation hazard class: Not classified as dangerous
 14.4 Packing group: Not relevant
 14.5 Environmental hazards:..... None
 14.6 Special precautions: None
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not relevant.

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The format of this safety data sheet complies with the requirements of:

- **Globally Harmonised System of Classification and Labelling of Chemicals (GHS)**
- **Regulation (EC) No 1907/2006** (as amended) on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- **EU Regulations:** Authorisation and/or restriction of use: Regulation EC 1831/2003 on additives for use in animal nutrition.
- **Other EU regulations:** Regulation EC 1272/2008 on the classification, labelling and packaging of substances and mixtures - This product is not required to be registered under EC Regulation 1907/2006. Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2 Chemical safety assessment:

No specific chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16 - OTHER INFORMATION

Classification according to Regulation (EC) N.1272/2008	Classification
Respiratory Sensitizer, Category.1 - H334	On calculation method
Skin Irritant, Category.2 - H315	On calculation method
Eye Irritant, Category.2 - H319	On calculation method

Disclaimer:

The information, data and recommendations contained in this SDS are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date of revision. The SDS serves as description of the products in regard to necessary safety measures. No warranty, expressed or implied, regarding the product described in this SDS shall be created or inferred by any statement in this SDS.

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