

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- 1.1** Product identifier: BIOTAL HAY INOCULANT
- 1.2** Identified use: Animal Nutrition
- 1.3** Supplier details: Lallemand Animal Nutrition, NA
6120 W. Douglas Ave, Milwaukee, WI 52318
Tel: 414-464-6440 Email: LANNACS@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 the Globally Harmonized System (GHS) and to Regulation 1272/2008/CE (CLP): Not dangerous
- 2.2** Label elements: None
- 2.3** Other Hazards: None

SECTION 3 – INFORMATION ON INGREDIENTS

Substance component(s) which may pose a health hazard: none.

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye contact:..... Adequately flush eyes with water.

Skin contact:..... Wash affected area with soap and water.

Inhalation:..... Immediately remove person to fresh air.

Ingestion:..... Rinse mouth and throat thoroughly with water. Drink plenty of water.

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

Eye contact:..... Possible irritation

Skin contact:..... May cause irritation

Inhalation:..... May cause coughing (irritation) or irritate asthma. May cause sensitization.

Ingestion:..... Possible bloating, gas, and bowel discomfort.

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

None; if any symptom persists 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 Personnel precautions:

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

6.2 Environmental precautions: None

6.3 Method and materials for clean 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 plenty of 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. Mop up the product spilled with inert material (e.g. dry sand or dry earth) and place in a chemical waste container. Recycle if possible.

6.4 References to other sections:

See Section 8 for personal protective equipment and section 13 for waste disposal.

SECTION 7 – HANDLING & STORAGE

7.1 Precautions for safe handling:

Handling: Avoid breathing dust. Avoid contact with eyes.

Occupational hygiene: Wash hands thoroughly after handling.

7.2 Conditions for safe storage:

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.

Fire/explosion protection: None needed

7.3 Specific end use: Animal Nutrition

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: Protective glasses should be worn in conditions of excessive dusting.

Skin protection: Hand: None

Other: None. Wear appropriate clothing for work.

Respiratory protection: P3 protective mask should be worn.

Thermal protection: None

Environmental exposure: None

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Light beige/off white powder

Odour: Slight fermentation odor

Solubility: Water dispersible

Odour threshold; pH; Melting point/Freezing point; Initial boiling point and boiling range; Flash point; Evaporation rate; Flammability; Vapour pressure; Vapour density; Relative density; Partition coefficient (n-octanol/water); Auto-ignition temperature; Decomposition temperature; Viscosity; Explosive properties; Oxidising properties: Not Applicable

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: None

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
Eye damage/irritation:..... Possible irritation to eye
Respiratory /Skin sensitization:..... Possible allergic reaction or sensitization
CMR (Carcinogenity, germ cell Mutagenicity, Reproductive toxicity): No known effects
Chronic effects: No known effects

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity:..... No known ecological effects.
12.2 Persistence and degradability:..... No persistence and the substance is bio-degradable.
12.3 Bioaccumulative potential:..... None
12.4 Mobility in soil:..... Not relevant
12.5 Results of PBT and vPvB assessment: Not relevant
12.6 Other adverse effects: None

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product and packaging can be disposed of in regular trash or waste. No special disposal method required. 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)** and with **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: Not relevant

SECTION 16 – OTHER INFORMATION

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.

Revision date: September 2016 - The whole datasheet has been revised to ensure conformity with EC Regulation 1907/2006 (consolidated version).

Date of preparation: October 2, 2017

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Revision Matrix

N°	Date (D/M/Y)	Changes, Revisions, Deletions
3	01 August 2012	Create version 3 to have sections formatted as in EU 1907/2006. Update disclaimer.
4	07 December 2012	Create EU version 4 to include new subsections as in 453/2010.
5	31 March 2016	Remove revision date
6	October 2016	Update to apply requirements from EC Regulation 1907/2006 as amended – Update of graphical chart – Addition of variable mentions in section 1