

# Safety Data Sheet

Issuing date: 03/21/2019

Revised: 07/24/2020

Version: 2.0

## 1. Product and company identification

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- a. **Product Name:** LactiproFLX®
- b. **Manufacturer:** MS Biotec, LLC, 1300 Kaw Valley Road, Wamego, KS 66547, USA. Telephone: 785.456.1388 Fax: 877.334.9481
- c. **Emergency Phone Number:** 785.456.1388
- d. **Intended use:** Direct-fed microbial supplement for cattle during intensive feeding.
- e. **Restrictions on Use:** For cattle only. NOT FOR HUMAN CONSUMPTION.

## 2. Hazards identification

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Naturally occurring volatile and non-volatile fatty acids contained in the product may cause skin irritation upon long term exposure to the skin.

## 3. Composition/information on ingredients

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### a. Description:

LactiproFLX contains a blend of Maltodextrin, Sugar, and Dried *Megasphaera elsdenii* (strain NCIMB 41125; a bacteria) fermentation product in a gelatin capsule.

*Megasphaera elsdenii* strain NCIMB 41125 is a naturally occurring microorganism isolated from the rumen of cattle.

LactiproFLX has a label guarantee of a minimum concentration of:

- Feedlot:  $1 \times 10^{10}$  colony forming units of *Megasphaera elsdenii*/capsule
- Dairy:  $2 \times 10^{10}$  colony forming units of *Megasphaera elsdenii*/capsule
- Calf:  $5 \times 10^9$  colony forming units of *Megasphaera elsdenii*/capsule

b. **Hazardous ingredients:** Not applicable.

## 4. First aid measures

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- a. **Skin contact:** If contact occurs, wash affected area with soap and water and rinse thoroughly.
- b. **Eye contact:** If contact occurs, flush eye(s) with water.
- c. **Inhalation:** If inhalation occurs, remove person to fresh air.
- d. **Ingestion:** Drink 16 oz of water and seek medical attention.
- e. **If any irritation persists, seek medical attention.**

## 5. Fire-fighting measure

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- a. **Conditions of flammability:** Not applicable.
- b. **Flash point:** Not applicable.
- c. **Flammable limits:** Not applicable.

- d. **Auto-ignition temperature:** Not applicable.
- e. **Hazardous combustion products:** Not applicable.
- f. **Extinguishing media:** In case of fire in the surroundings, water and any fire extinguisher can be used on product.

## 6. Accidental release measures

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- a. **Precautions:** Wear respiratory protection when dust exposure is high. Waste can be mechanically collected in a suitable container.
- b. **Methods for cleaning up:** Spillage should be moistened and washed with 1% bleach solution.

## 7. Handling and storage

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- a. **Handling:** Do not ingest. No other precaution required under normal conditions of use.
- b. **Storage:** Store at 4°C ± 2.

## 8. Exposure Controls; Personal protection

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- a. **Respiratory protection:** None required under normal conditions of use.
- b. **Eye contact:** Wear safety glasses.
- c. **Skin contact:** Wear standard rubber gloves.

## 9. Physical and chemical properties

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- a. **Appearance:** Pale yellow powder with acetic acid (vinegar) smell.
- b. **pH:** 5.8-6.4 in water
- c. **Melting/Freezing/boiling:** Substantially equivalent to water.

## 10. Stability and reactivity

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- a. **Stability:** *Megasphaera elsdenii* organisms remain alive for 12 months (until expiration date) under recommended storage conditions. Product expiration does not change the stability of packaging.
- b. **Materials and conditions to avoid:** None known
- c. **Hazardous decomposition:** None known

## 11. Toxicological information

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- a. **Skin contact:** Irritation on extended contact
- b. **Eye contact:** Irritation on eye contact
- c. **Inhalation:** Irritation may occur.
- d. **Ingestion:** May result in nausea
- e. **Delayed or Chronic Effects:** None known.

## 12. Ecological information

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- a. **Ecology:** Environmental effect negligible. The product is degraded by the environment with no known effect on any living organisms in water and soil.

### **13. Disposal procedures**

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- a. **Water disposal ecology:** Readily degraded by the environment, wash with water. No special disposal method required, except that it be in accordance with current regional, national, and local laws and regulations.

### **14. Transportation information**

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- a. **Transportation:** Not classified by transport regulations.

### **15. Regulatory information**

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- a. **Labeling:** Microbial supplement for feedlot cattle, dairy and beef cows and calves containing a source of live (viable) naturally occurring microorganisms.
- b. **Hazard labeling:** None required.

### **16. Other information**

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The statements contained herein are based on currently available data as of the date above and are believed to be correct. Users should consider these data only as a supplement to other information gathered by them and should make independent determinations on suitability and completeness of information from all sources to assure proper use, storage, and disposal of these materials and the safety and health of employees and the protection of the environment. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use.

# Safety Data Sheet

Issuing date: 03/21/2019

Revised: 07/24/2020

Version: 2.0

## 1. Product and company identification

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- a. **Product Name:** LactiproNXT®
- b. **Manufacturer:** MS Biotec, LLC, 1300 Kaw Valley Road, Wamego, KS 66547, USA. Telephone: 785.456.1388 Fax: 877.334.9481
- c. **Emergency Phone Number:** 785.456.1388
- d. **Intended use:** Direct-fed microbial supplement for cattle during intensive feeding.
- e. **Restrictions on Use:** For cattle only. NOT FOR HUMAN CONSUMPTION.

## 2. Hazards identification

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After rehydration, naturally occurring volatile and non-volatile fatty acids contained in the product may cause skin irritation upon long term exposure to the skin.

## 3. Composition/information on ingredients

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### a. Description:

LactiproNXT is an oral drench (a liquid, once rehydrated) containing Water, Maltodextrin, Sugar, Dried *Megasphaera elsdenii* (strain NCIMB 41125; a bacteria) Fermentation Product, Sodium Phosphate, Sodium Chloride.

*Megasphaera elsdenii* strain NCIMB 41125 is a naturally occurring microorganism isolated from the rumen of cattle.

LactiproNXT has a label guarantee of a minimum concentration of:

- $5 \times 10^8$  colony forming units of *Megasphaera elsdenii* strain/mL once rehydrated.

b. **Hazardous ingredients:** Not applicable.

## 4. First aid measures

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- a. **Skin contact:** Wash affected area with soap and water and rinse thoroughly.
- b. **Eye contact:** Flush eye(s) with water.
- c. **Inhalation:** If inhalation occurs, remove person to fresh air.
- d. **Ingestion:** Drink 16 oz of water and seek medical attention.
- e. **If any irritation persists, seek medical attention.**

## 5. Fire-fighting measure

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- a. **Conditions of flammability:** Not applicable.
- b. **Flash point:** Not applicable.
- c. **Flammable limits:** Not applicable.
- d. **Auto-ignition temperature:** Not applicable.
- e. **Hazardous combustion products:** Not applicable.

- f. **Extinguishing media:** In case of fire in the surroundings, water and any fire extinguisher can be used on product.

## 6. Accidental release measures

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- a. **Precautions:** Wear respiratory protection when dust exposure is high. Waste can be mechanically collected in a suitable container.
- b. **Methods for cleaning up:** Spillage should be moistened and washed with 1% bleach solution.

## 7. Handling and storage

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- a. **Handling:** Do not ingest. No other precaution required under normal conditions of use.
- b. **Storage:** Store at 4°C ± 2.

## 8. Exposure Controls; Personal protection

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- a. **Respiratory protection:** None required under normal conditions of use.
- b. **Eye contact:** Wear safety glasses.
- c. **Skin contact:** Wear standard rubber gloves.

## 9. Physical and chemical properties

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- a. **Appearance:** Pale yellow powder with acetic acid (vinegar) smell.
- b. **pH:** 5.8-6.4 once rehydrated
- c. **Melting/Freezing/boiling:** Substantially equivalent to water.

## 10. Stability and reactivity

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- a. **Stability:** *Megasphaera elsdenii* organisms remain alive for 12 months (until expiration date) under recommended storage conditions. Product expiration does not change the stability of packaging.
- b. **Materials and conditions to avoid:** None known
- c. **Hazardous decomposition:** None known

## 11. Toxicological information

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- a. **Skin contact:** Irritation on extended contact
- b. **Eye contact:** Irritation on eye contact
- c. **Inhalation:** Irritation may occur.
- d. **Ingestion:** May result in nausea
- e. **Delayed or Chronic Effects:** None known.

## 12. Ecological information

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- a. **Ecology:** Environmental effect negligible. The product is degraded by the environment with no known effect on any living organisms in water and soil.

## 13. Disposal procedures

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- a. **Water disposal ecology:** Readily degraded by the environment, wash with water. No special disposal method required, except that it be in accordance with current regional, national, and local laws and regulations.

#### **14. Transportation information**

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- a. **Transportation:** Not classified by transport regulations.

#### **15. Regulatory information**

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- a. **Labeling:** Microbial supplement for feedlot cattle, dairy and beef cows and calves containing a source of live (viable) naturally occurring microorganisms.
- b. **Hazard labeling:** None required.

#### **16. Other information**

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The statements contained herein are based on currently available data as of the date above and are believed to be correct. Users should consider these data only as a supplement to other information gathered by them and should make independent determinations on suitability and completeness of information from all sources to assure proper use, storage, and disposal of these materials and the safety and health of employees and the protection of the environment. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use.

# Safety Data Sheet

Issuing date: 02.09.2024

Revised: N/A

Version: 0

## 1. Product and company identification

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- a. **Product Name:** LactiproEDGE
- b. **Manufacturer:** MS Biotec, LLC, 1300 Kaw Valley Road, Wamego, KS 66547, USA. Telephone: 785.456.1388 Fax: 877.334.9481
- c. **Emergency Phone Number:** 785.456.1388
- d. **Intended use:** Direct-fed microbial for further manufacture of feed.
- e. **Restrictions on Use:** For cattle and small ruminants only. NOT FOR HUMAN CONSUMPTION.

## 2. Hazards identification

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Naturally occurring volatile and non-volatile fatty acids contained in the product may cause skin irritation upon long term exposure to the skin.

## 3. Composition/information on ingredients

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### a. Description:

LactiproEDGE is an encapsulated prill using hydrogenated vegetable oil to coat a Freeze-Dried Powder containing a Dried *Megasphaera elsdenii* (strain NCIMB 41125; a bacteria) fermentation product, Maltodextrin, and Sugar. *Megasphaera elsdenii* strain NCIMB 41125 is a naturally occurring microorganism isolated from the rumen of cattle.

- b. **Hazardous ingredients:** Not applicable.

## 4. First aid measures

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- a. **Skin contact:** If contact occurs, wash affected area with soap and water and rinse thoroughly. Get medical attention if irritation develops.
- b. **Eye contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
- c. **Inhalation:** If inhalation occurs, remove person to fresh air.
- d. **Ingestion:** Drink 16 oz of water and seek medical attention. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
- e. **If any irritation persists, seek medical attention.**

## 5. Fire-fighting measure

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- a. **Conditions of flammability:** Not applicable.
- b. **Flash point:** > 550.0 °F (> 287.8 °C)
- c. **Flammable limits:** Not applicable.
- d. **Auto-ignition temperature:** Not applicable.
- e. **Hazardous combustion products:** Not applicable.

- f. **Extinguishing media:** In case of fire in the surroundings, water and any fire extinguisher can be used on product.

## 6. Accidental release measures

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- a. **Precautions:** Wear respiratory protection when dust exposure is high. Waste can be mechanically collected in a suitable container.
- b. **Methods for cleaning up:** Spillage should be washed with 1% bleach solution.

## 7. Handling and storage

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- a. **Handling:** Do not ingest. No other precaution required under normal conditions of use.
- b. **Storage:** Store at 4°C ± 2 or -20°C ± 2. Keep away from open flames, hot surfaces, and sources of ignition.

## 8. Exposure Controls; Personal protection

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- a. **Respiratory protection:** None required under normal conditions of use.
- b. **Eye contact:** Wear safety glasses.
- c. **Skin contact:** Wear standard rubber gloves.
- d. **Hygiene measures:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink, or smoke.

## 9. Physical and chemical properties

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- a. **Appearance:** Pale yellow prill/pellet with slight vegetable oil odor.
- b. **Physical state:** Solid
- c. **pH:** Unknown
- d. **Melting/Freezing/boiling:** Unknown

## 10. Stability and reactivity

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- a. **Stability:** *Megasphaera elsdenii* organisms remain alive for 12-24 months, refer to finished goods expiration, under recommended storage conditions. Product expiration does not change the stability of packaging.
- b. **Materials and conditions to avoid:** Strong oxidizing agents
- c. **Hazardous decomposition:** Hazardous decomposition products formed under fire conditions. -
- **Nature of decomposition products** not known.
  - **Other decomposition products** - no data available Cotton & other type material rags used for clean-up (clean or contaminated) can combust if conditions are adequate. Keep in safe place or dispose of rags after usage in an Underwriting Laboratories or FM Global approved metal container equipped with self-closing or fusible link operated cover.

## 11. Toxicological information

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- a. **Skin contact:** Irritation on extended contact
- b. **Eye contact:** Irritation on eye contact
- c. **Inhalation:** Irritation may occur
- d. **Ingestion:** May result in nausea

- e. **Delayed or Chronic Effects:** None known

## 12. Ecological information

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- a. **Ecology:** Environmental effect negligible. The product is degraded by the environment with no known effect on any living organisms in water and soil. Oil is insoluble in water and will float in water.

## 13. Disposal procedures

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- a. **Water disposal ecology:** Readily degraded by the environment, wash with water. No special disposal method is required, except that it be in accordance with current regional, national, and local laws and regulations.
- b. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in Underwriting Laboratories or FM Global approved metal containers equipped with self-closing or fusible link operated covers.

## 14. Transportation information

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- a. **Transportation:** Not classified by transport regulations.

## 15. Regulatory information

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- a. **Labeling:** Microbial feed additive for further manufacture of feed.
- b. **Hazard labeling:** None required.

## 16. Other information

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The statements contained herein are based on currently available data as of the date above and are believed to be correct. Users should consider these data only as a supplement to other information gathered by them and should make independent determinations on suitability and completeness of information from all sources to assure proper use, storage, and disposal of these materials and the safety and health of employees and the protection of the environment. No warranty, express or implied, is made regarding data accuracy, merchantability or hazards associated with product use.

**End of Safety Data Sheet**