

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** 

ENERTIA

**Product Code:** 

92620014

Use of the Substance / Preparation:

**Animal Feed** 

Emergency response telephone number:

Chemtrec 1-800-424-9300 (CCN 1635)

Contact Manufacturer: ADM Animal Nutrition ™ 1000 North 30th St. Outney II 62301

Quincy, IL 62301 United States

Tel. (+1) 217-222-7100 (business hours)

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

May form combustible dust concentrations in air (during processing and handling). Product dust may cause mild, mechanical irritation.

**Appearance** 

Physical State

Odor

<u>Tan</u>

Solid

No information available

Classification according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS):

OSHA Defined Hazard(s)

Combustible Dust

#### **OSHA / GHS Label Elements**

GHS Hazard Pictogram(s):	Note: The OSHA combustible dust hazard class does not have an assigned pictogram.
Signal Word:	Warning
Hazard Statement(s):	May form combustible dust concentrations in air.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Calcium salts of long-chain fatty acids.

Components which are not considered to be health hazards under paragraph (d) of 29 CFR §1910.1200 (HCS 2012) or SOR/2015-17 (WHMIS 2015) are not required to be disclosed. Components may be present which contribute to a potential combustible dust hazard, but are not disclosed since they do not pose health hazards. If additional composition information is needed, please consult with your ADM sales or technical contact.

# 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin Contact Wash off with warm water and soap.

Inhalation Move to fresh air.

Authored to comply with 29 CFR 191:1200, as amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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Ingestion Clean mouth with water and afterwards drink plenty of water.

General Advice When symptoms persist or in all cases of doubt seek medical advice.

### Most important symptoms and affects, both acute and delayed

Eyes Contact with eyes may cause mechanical irritation.

Skin Product dust may cause mild, mechanical irritation.

Inhalation Dust may cause irritation of respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use. The product is not expected to produce ill effects when blended into animal feed in the recommended quantities.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Special forms of treatment and immediate medical attention are not specified. Treat Symptomatically.

## 5. FIRE-FIGHTING MEASURES

Flammable Properties

As with most organic solids, combustion is possible at elevated temperatures or by contact with an ignition source. Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Extinguishing media

Suitable Extinguishing Media Water. Foam. Carbon dioxide (CO<sub>2</sub>) Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None known.

#### Special hazards arising from the substance or mixture

Hazardous Combustion Products Carbon oxides.

Specific Hazards Arising from the Chemical None known.

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge Yes. (as dust).

Advice for fire-fighters

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0 Flammability 1 Stability and Reactivity 0
Physical hazard None known



## 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Use appropriate personal protective equipment. Avoid dust formation and accumulation.

**Environmental Precautions** 

Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning Up

Sweep up or vacuum up using spark-free earthed vacuum cleaner.

#### 7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Keep away from open flames, hot surfaces and sources of ignition. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities".

Storage

Store in a cool, dry, hygienic situation, whether in bulk silos, tote bags or paper sacks. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Exposure Limits** 

Where exposure limits have not been established for specific components of this material, please observe the OSHA and ACGIH established limits for particulates not otherwise classified (PNOC). OSHA PEL: [15 mg/m³ (total dust) 8-hr TWA], [5 mg/m³ (respirable) 8-hr TWA]. ACGIH TLV: [10 mg/m³ (inhalable) 8-hr TWA], [3 mg/m³ (respirable) 8-hr TWA].

**Appropriate Engineering Controls** 

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

**General Hygiene Considerations** 

Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment

Eye/face Protection. Skin and Body Protection

Respiratory Protection

If exposed to airborne dust, safety goggles are recommended.

Protective clothing and gloves may be worn to reduce the potential of mechanical irritation. Also take into consideration the specific local conditions under which the product is used. If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Appropriate respiratory protection should be selected by a qualified person and should be based upon a risk assessment of the work activities and exposure levels.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State

Odor

Odor Threshold

pН

Tan Solid

No information available No information available

No information available

Flash Point

Autoignition Temperature

**Boiling point** 

Melting/Freezing Point
Decomposition temperature
Oxidizing Properties
Flammability Limits in Air

Not applicable (solid)
No information available
Not applicable (solid)
No information available
No information available
No information available
No information available

Solubility(ies)
Evaporation Rate
Vapor Pressure
Vapor Density
Relative Density
Viscosity (kinematic)
Partition Coefficient
(n-octanol/water)

No information available Not applicable (solid) Not applicable (solid) Not applicable (solid) No information available No information available No information available

# 10. STABILITY AND REACTIVITY

**Reactivity** Stable under recommended use and storage conditions. **Stability** Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks. Avoid dust formation.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products Thermal decomposition may lead to release of, Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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Acute toxicity	Based on available data, no evidence of acute toxicity. (Classification is based on available literature data for the significant mixture components). The product is not expected to produce ill effects when blended into animal feed in the recommended quantities.
Skin corrosion/irritation	Based on available data, not, or only slightly irritating. (Classification is based on available literature data for the significant mixture components).
Serious eye damage/eye irritation	Based on available data, no evidence of serious eye damage / irritation. (Classification is based on available literature data for the significant mixture components).
Respiratory or skin sensitisation	Not expected to be a skin or respiratory sensitizer. (Classification is based on available literature data for the significant mixture components).
Germ cell mutagenicity	Not classified. Not expected to be mutagenic. None of the significant input ingredients of this mixture have been identified as being mutagenic.
Carcinogenicity	Based on available data, no evidence of carcinogenicity. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
Reproductive toxicity	Not classified. Not expected to be toxic to reproduction. None of the significant input ingredients of this mixture have been identified as being toxic to reproduction.
STOT - single exposure	Not classified. No evidence of toxicity. None of the significant input ingedients of this mixture have been identified as a STOT SE hazard.
STOT - repeated exposure	Not classified. No evidence of toxicity. None of the significant input ingedients of this mixture have been identified as a STOT RE hazard.
Aspiration hazard	Based on available data, no known aspiration hazard. (Classification is based on available literature data for the significant mixture components).

Potential health effects

Eyes Contact with eyes may cause mechanical irritation.

Skin Product dust may cause mild, mechanical irritation.

Inhalation Dust may cause irritation of respiratory tract.

Ingestion

Health injuries are not known or expected under normal use. The product is not expected to produce ill effects when blended into animal feed in the recommended quantities.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Not classified for aquatic toxicity. This product has not been evaluated for eco-toxicological effects.

# 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

**Waste Disposal Methods** 

Dispose of in compliance with the laws and regulations pertaining to this product in your

jurisdiction.

**Contaminated Packaging** 

Empty containers should be taken for local recycling, recovery or waste disposal.

# 14. TRANSPORT INFORMATION

# Domestic transport regulations (USA)

**DOT** Not regulated.

## 15. REGULATORY INFORMATION

## International Inventories

As animal feed, this product is exempted from the following inventories: U.S.A. (TSCA).

## USA

Federal Regulations

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SARA 311/312 Hazardous Categorization

Acute Health Hazard No Chronic Health Hazard No

Fire Hazard Yes (when in the form of combustible dust)

Sudden Release of Pressure Hazard No Reactive Hazard No

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain chemicals at levels which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

#### CERCLA/SARA 103-302

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (CERCLA/SARA). This product is not known to contain chemicals at levels which are expected to be subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

#### State Regulations

#### State Right-to-Know

This product may contain one or more ingredient(s) which are subject to state right to know laws. Please contact your sales representative for ingredient details if needed.

## 16. OTHER INFORMATION

Prepared By: ADM Animal Nutrition™

**Revision Date:** 29-Nov-2016

**Revision Number:** 3.09

Reason for revision: Composition / information on ingredients. Hazard classification updated. This version

replaces all previous versions.

#### Literature References:

When available, hazard classifications for unreacted ingredients are obtained from supplier Safety Data Sheets. Additional literature sources may include:

CSST Répertoire toxicologique: 2015 WHMIS classification of chemical substances

(http://www.csst.qc.ca/en/prevention/reptox/Pages/list-whmis-2015-a.aspx)

- European Chemicals Agency (http://echa.europa.eu)

- International Programme on Chemical Safety (IPCS) INCHEM website, which is provided in cooperation with the Canadian Centre for Occupational Health and Safety (CCOHS) (http://www.inchem.org)

- TOXNET HSDB: a database of the National Library of Medicine's TOXNET system (http://toxnet.nlm.nih.gov)

#### Abbreviations and acronyms

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values

CAS - Chemical Abstract Service

Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)

Delisted - Substances Delisted from Report on Carcinogens

DNEL - Derived No Effect Level

DOT - U.S. Department of Transportation

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

IARC - International Agency for Research on Cancer

IDLH - Immediately Dangerous to Life or Health

Known - Known Carcinogen

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LC50 - Lethal concentration that produces fatalities in 50% of a given test population

LD50 - Median lethal dose of a given test population

NFPA - National Fire Protection Association

NIOSH - National Institute of Occupational Safety and Health

NOAEL - No Observed Adverse Effect Level

NTP - National Toxicology Program

OECD - Organisation for Economic Co-operation and Development

OSHA - Occupational Safety & Health Administration

OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits

PNEC - Predicted No-Effect Concentration

Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Skin notation - Potential for cutaneous absorbtion

STEL - Short Term Exposure Limit: Concentrations that should not be exceeded except for short periods of time ( usually 15-minutes)

STOT - Specific Target Organ Toxicity

STV - Short Term Value (same as STEL)

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)

TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)

Under Consideration - Under Consideration by the National Toxicology Program

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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