



SAFETY DATA SHEET

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

Product Name:
SAFEGUARD CATTLE AND SWINE DEWORMER
Use of the Substance / Preparation:
Animal Feed Ingredient

Product Code:
860200E4

Contact Manufacturer:
ADM Animal Nutrition TM
1000 North 30th St.
Quincy, IL 62301
United States
Tel. (+1) 217-222-7100 (business hours)

Emergency response telephone number:
Chemtrec 1-800-424-9300 (CCN 1635)

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health. Product dust may cause mild, mechanical irritation. Contains processed grain by-products, which may include peanut and wheat. Contains plant protein products, which may include peanut, soy, and tree nuts. Contains grain products, which may include wheat.

Appearance
Tan

Physical State
Solid

Odor
No information available

This product is NOT classified as hazardous according to 29 CFR 1910.1200 (known as HCS 2012), amended to conform to the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Hazards Not Otherwise Classified	One or more of the product component(s) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Mixture.

Description This product is not known to contain components at levels which present a health hazard according to the definitions set forth by the OSHA Hazard Communication Standard (29 CFR 1910.1200, Appendix A) or the criteria contained in the Hazardous Products Regulations (SOR/2015-17), also known as WHMIS 2015.

The following component(s) are considered hazardous in accordance with paragraph (d) of 29 CFR 1910.1200 [OSHA] or require disclosure as an air contaminant.

Chemical Name	CAS-No	Weight %	Substance Hazard Classification
Carbonic acid, calcium salt (1:1)	471-34-1	1% < x < 3%	29 CFR 1910.1000 Air Contaminant.

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. Where a single SDS is used for similar mixtures or in cases of a batch-to-batch variability, OSHA guidance allows for the use of concentration ranges. [Directive: CPL 02-02-079]

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.

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. Contains processed grain by-products, which may include peanut and wheat. Contains plant protein products, which may include peanut, soy, and tree nuts. Contains grain products, which may include wheat.

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. Repeated exposure may cause skin dryness or cracking.

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.

Main Symptoms Repeated or prolonged exposure may cause irritation of eyes and skin. Shortness of breath.

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

Based on composition, the material is not expected to present a flammability hazard.

Extinguishing media

Suitable Extinguishing Media 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 Nitrogen oxides (NO_x), Carbon oxides, Acrolein.

Specific Hazards Arising from the Chemical None known.

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge No information available.

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 1

Flammability 0

Stability and Reactivity 0

Physical hazard None known



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Ensure adequate ventilation. Use appropriate personal protective equipment.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning Up

Clean up promptly by sweeping or vacuum.

7. HANDLING AND STORAGE

Handling

Avoid dust formation in confined areas. Ensure adequate ventilation.

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

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].

Chemical Name	Weight %	ACGIH TLV	OSHA PEL	NIOSH
Carbonic acid, calcium salt (1:1)	1% < x < 3%		TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust

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.**

If exposed to airborne dust, safety goggles are recommended.

Skin and Body Protection

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.

Respiratory Protection

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	Tan
Physical State	Solid
Odor	No information available
Odor Threshold	No information available
pH	No information available
Flash Point	Not applicable (solid)
Autoignition Temperature	No information available
Boiling point	Not applicable (solid)
Melting/Freezing Point	No information available
Decomposition temperature	No information available
Oxidizing Properties	No information available
Flammability Limits in Air	No information available
Solubility(ies)	No information available
Evaporation Rate	Not applicable (solid)
Vapor Pressure	Not applicable (solid)
Vapor Density	Not applicable (solid)
Relative Density	No information available
Viscosity (kinematic)	No information available

Partition Coefficient (n-octanol/water) 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 None known.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products Nitrogen oxides (NOx), Thermal decomposition may lead to release of, Carbon oxides, Acrolein.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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 ingredients 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 ingredients 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. Repeated exposure may cause skin dryness or cracking.

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.

Main Symptoms

Repeated or prolonged exposure may cause irritation of eyes and skin. Shortness of breath.

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****SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
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: 30-Dec-2015
Revision Number: 1
Reason for revision: Implementation into software system.

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
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 absorption
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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