



SAFETY DATA SHEET

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

Product Name:
DIPTERACIDE PREMIX 10.5% 6# BOX
Use of the Substance / Preparation:
Feed Through Pesticide

Product Code:
7048261V

Contact Manufacturer:
ADM Animal Nutrition™
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

May form combustible dust concentrations in air (during processing and handling). Not for human consumption. Irritating to skin. Suspected of causing cancer - risk depends on duration and level of exposure. Contains > 0.1% of a category 2 carcinogen.

Appearance
Tan


Physical State
Solid

Odor
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):

Skin Corrosion / irritation	Category 2
Carcinogenicity	Category 2
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. H315 Causes skin irritation H351 Suspected of causing cancer
Prevention Precautionary Statements:	Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response Precautionary Statements:	If on skin: Wash with plenty of water. Specific treatment: See section 4 of the SDS. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash it before reuse. If exposed or concerned: Get medical advice/attention.
Storage Precautionary Statements:	Store locked up.
Disposal Precautionary Statements:	Dispose of contents/container in accordance with all applicable national and local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation Mixture.

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
Silica, amorphous, precipitated and gel	112926-00-8	80% < x < 90%	29 CFR 1910.1000 Air Contaminant. See section 8 for OELs.
(S)-Methoprene	65733-16-6	10% < x < 20%	Skin Irrit. 2. STOT SE 3. (inhalation)
Butylated hydroxyanisole (BHA)	25013-16-5	1% < x < 3%	Skin Irrit. 2. Eye Irrit. 2. STOT SE 3. Carc. 2.

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. 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 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

Skin Contact Remove and wash contaminated clothing before reuse. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water. Drink 1 or 2 glasses of water. If ingested in large amounts, seek medical attention. Do not induce vomiting without medical advice.

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. Avoid contact with eyes.

Skin Avoid contact with skin. Irritating to skin.

Inhalation Dust may cause irritation of respiratory tract. Avoid breathing dust.

Ingestion Health injuries are not known or expected under normal use. Not for human consumption.

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 (CO₂) 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 2
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. Avoid contact with the skin and the eyes.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

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". Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid contact with skin and eyes.

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. Keep away from food, drink, and animal feedstuffs. Keep away from other pesticides.

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
Silica, amorphous, precipitated and gel	80% < x < 90%		20 mppcf TWA (80)/(% SiO ₂) mg/m ³ TWA	3000 mg/m ³

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. Ensure that eyewash stations and safety showers are close to the workstation location.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing.

Personal Protective Equipment**Eye/face Protection.**

If exposed to airborne dust, safety goggles are recommended.

Skin and Body Protection

Long sleeved clothing and protective gloves are recommended. 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
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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 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

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 used as a feed-through pesticide in accordance with the label instructions.				
Skin corrosion/irritation	Cat 2 H315: Causes skin irritation. (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	Carcinogen, Cat. 2: Suspected of causing cancer. Contains > 0.1% of a category 2 carcinogen.				
Chemical Name	Weight %	OSHA	NTP	ACGIH	IARC
Butylated hydroxyanisole (BHA)	1% < x < 3%	Present	Reasonably Anticipated		Group 2B - Possibly Carcinogenic to Humans
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. Avoid contact with eyes.
Skin	Avoid contact with skin. Irritating to skin.
Inhalation	Dust may cause irritation of respiratory tract. Avoid breathing dust.
Ingestion	Health injuries are not known or expected under normal use. Not for human consumption.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not classified for aquatic toxicity. This product has not been evaluated for eco-toxicological effects. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsates. Component-level values are listed below.

Chemical Name	Weight %	Fresh Water Algae	Acute Fish Toxicity	Daphnia (Water flea)
Silica, amorphous, precipitated and gel	80% < x < 90%	EC50: 72h 440 mg/L (Pseudokirchneriella subcapitata)	LC50: 96h 5000mg/L (Brachydanio rerio) IUCLID	EC50: 48h 7600 mg/L
(S)-Methoprene	10% < x < 20%		96-hour LC50 31.5 ppm; 96-hour NOEC = 316 ppb (Rainbow trout)	24-hour EC50 = 129 ppb; 48-hour NOEC = 43.1 ppb

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	Non-refillable container. Do not reuse or refill the container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated.

15. REGULATORY INFORMATION

International Inventories

As a pesticide, this product is exempt from TSCA listing.

USA**Federal Regulations****SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Use this product as specified on the label.

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:	27-Jan-2016
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.

End of sheet

