

Swine Premix

Safety Data Sheet

Section 1: Identification of the substance or mixture and of the supplier

Product Name: Swine Premix
Intended Use: Animal feed supplement

Manufacturer: D&D Ingredient Distributors, Inc.
5191 Kill Road
Delphos, OH. 45833

Emergency Contact Number: 419-692-3205

Section 2: Hazard(s) Identification

Classification

Acute Oral Toxicity Category 4
Eye Damage Category 1
Respiratory Sensitizer Category 1
Skin Sensitizer Category 1
Germ Cell Mutagenicity Hazard Category 2
Reproductive Toxicity Category 1B
Carcinogenicity Hazard Category 1A
Specific Target Organ Toxicity-Repeat Exposure Category 2

Hazards not Otherwise Classified

None

Label Elements



DANGER

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 May cause damage to hematopoietic (blood) system, liver or kidney through prolonged or repeated exposure.

Precautionary Statement(s):

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear eye protection, protective gloves.
P285 In case of inadequate ventilation wear respiratory protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

Section 3: Composition / Information on Ingredients

Component	CAS No.	Concentration
Calcium Carbonate	471-34-1	~80 - ~90
Ferrous Sulfate	17375-41-6	5-10
Zinc sulfate monohydrate	7446-19-7	1-3
Copper (II) sulfate pentahydrate	7758-99-8	1-3
Silica Quartz	14808-60-7	< 1
Cobalt sulfate	10124-43-3	< 1
Cobalt carbonate	513-79-1	< 1
Sodium selenite	10102-18-8	< 1
Vitamin A acetate	127-47-9	< 1

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: First Aid Measures

Eye Contact: Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin Contact: Wash with plenty of soap and water. If symptoms or rash develop, seek medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Thoroughly clean shoes before reuse.

Inhalation (Breathing): Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get immediate medical attention.

Ingestion (Swallowing): Rinse mouth. Do not induce vomiting unless directed to by a physician. Get medical attention if you feel unwell or if symptoms occur.

Most important symptoms and effects:

Harmful if swallowed. Eye contact causes severe irritation and possible damage. May cause skin irritation. May cause an allergic skin reaction. May cause an allergic respiratory reaction. Causes damage to hematopoietic (blood) system, liver or kidney through prolonged or repeated exposure. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required for eye contact, and allergic respiratory reactions.

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Use media suitable to surrounding fire.

Specific hazards arising from the chemical: Thermal decomposition may release oxides of carbon, copper, and cobalt.

Special protective equipment and precautions for fire-fighters: Wear full protective clothing and positive pressure self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Ventilate the area. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Wear personal protective equipment as per Section 8. Keep unnecessary personnel away.

Environmental Precautions: Prevent entry in storm sewers and waterways.

Methods and materials for containment and cleaning up: Recover spilled material in a manner that minimizes the production of dust. Use HEPA filters if a vacuum is used for recovery. Place into an appropriate container for disposal. Wash spill area thoroughly.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Do not wear contaminated clothing or shoes. Keep containers closed when not in use.

Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for safe storage, including any incompatibilities: Store locked up. Keep away from strong acids, bases, and oxidizers.

Section 8: Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure Limits
Calcium Carbonate	15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable fraction)
Ferrous Sulfate	None established
Zinc sulfate monohydrate	None established
Copper (II) sulfate pentahydrate (As copper dust)	1 mg/m ³ TWA OSHA PEL 1 mg/m ³ TWA ACGIH TLV
Silica Quartz	0.025 mg/m ³ TWA ACGIH TLV (Respirable) 30 mg/m ³ TWA OSHA PEL (Total dust) % SiO ₂ + 2 10 mg/m ³ TWA OSHA PEL (Respirable fraction) % SiO ₂ + 2
Cobalt sulfate (as Cobalt)	0.1 mg/m ³ TWA OSHA PEL (Metal dust) 0.02 mg/m ³ TWA ACGIH TLV
Cobalt carbonate (as Cobalt)	0.1 mg/m ³ TWA OSHA PEL (Metal dust) 0.02 mg/m ³ TWA ACGIH TLV
Sodium selenite	None established
Vitamin A acetate	None established

Appropriate engineering controls: Ensure compliance with applicable exposure limits. Ensure adequate ventilation, or use local exhaust ventilation for dust control.

Eye/Face Protection: Wear dust proof goggles.

Skin/Hand Protection: Wear protective gloves.

Respiratory Protection: None under normal use conditions. For operations where the exposure limits are exceeded, a NIOSH approved respirator with a dust/mist cartridge or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Other Protective Equipment: Appropriate protective clothing as needed to avoid skin contact.

Section 9: Physical and Chemical Properties

Appearance:	Powder
Physical Form:	Solid
Odor:	Not determined
Odor Threshold:	Not determined
Specific Gravity (water=1):	Not determined
Decomposition temperature:	Not determined
Melting/Freezing Point:	Not applicable
Initial Boiling Point/Range:	Not applicable
Flash Point:	Not applicable
Auto-ignition Temperature:	Not applicable
Flammability (solid, gas):	Not applicable
Upper Explosive Limits (vol % in air):	Not applicable
Lower Explosive Limits (vol % in air):	Not applicable
Evaporation Rate (nBuAc=1):	Not applicable
Vapor Density (air=1):	Not applicable
Vapor Pressure:	Not applicable
Partition Coefficient (n-octanol/water) (Kow):	Not determined
Solubility in Water:	Not determined
pH:	Not applicable
Viscosity:	Not applicable

Section 10: Stability and Reactivity

Reactivity: None known

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None

Conditions to avoid: None

Incompatible materials: Keep away from strong acids, bases, and oxidizers.

Hazardous decomposition products: Thermal decomposition may release oxides of carbon, copper, and cobalt.

Section 11: Toxicological Information

Health Hazards:

<u>Acute Toxicity</u>	<u>Hazard</u>
Inhalation	May cause an allergic respiratory reaction.
Skin Contact	May cause an allergic skin reaction. May cause skin irritation.
Eye Contact	Causes severe eye irritation with possible damage.
Ingestion	Harmful if swallowed.

Chronic Effects: May cause damage to hematopoietic (blood) system, liver or kidney through prolonged or repeated exposure.

Carcinogenicity: Silica Quartz is listed by IARC as "Carcinogenic to Humans" Group 1, and by NTP as "Known to Be a Human Carcinogen". Cobalt sulfate and Cobalt carbonate are listed by IARC as "Possibly Carcinogenic to Humans" Group 2B, and by NTP as "Reasonably Anticipated to Be a Human Carcinogen".

Germ Cell Mutagenicity: Cobalt sulfate and Cobalt carbonate are suspected of causing genetic defects.

Reproductive Toxicity: Cobalt sulfate, Cobalt carbonate, Copper (II) sulfate pentahydrate, and Vitamin A acetate are presumed to produce an adverse effect on sexual function and fertility or on development in humans.

Acute Toxicity Values:

ATE:	LD50 Oral 1,581 mg/kg LD50 Dermal > 2,000 mg/kg
Calcium Carbonate:	LD50 Oral Rat > 2,000 mg/kg LC50 Inhalation Rat 3 mg/L/4 hr. LD50 Dermal Rat > 2,000 mg/kg
Ferrous Sulfate:	LD50 Oral Rat 220-2,000 mg/kg LD50 Dermal Rat > 2,000 mg/kg
Zinc sulfate monohydrate:	LD50 Oral Rat 1,710-2,000 mg/kg LD50 Dermal Rat > 2,000 mg/kg
Copper (II) sulfate pentahydrate:	LD50 Oral Rat 481-482 mg/kg LD50 Dermal Rat > 2,000 mg/kg
Quartz Silica:	LD50 Oral Rat > 22,500 mg/kg
Cobalt sulfate:	LD50 Oral Rat 161-1,330 mg/kg LD50 Dermal Rat > 2,000 mg/kg
Cobalt carbonate:	LD50 Oral Rat 434-732 mg/kg LD50 Dermal Rat > 2,000 mg/kg
Sodium selenite:	LD50 Oral Rat 7 mg/kg LC50 Inhalation Rat 0.052-0.510 mg/L/4 hr.
Vitamin A acetate:	LD50 Oral Rat 2,000-9,560 mg/kg

Section 12: Ecological Information

Ecotoxicity:

Calcium Carbonate: LC50 algae 14 mg/L/ 72 hr.
Zinc sulfate monohydrate: LC50 Fish 330 ug/L/ 96 hr.; EC50 Invertebrates 155-2,909 ug/L/48 hr.
Copper (II) sulfate pentahydrate: LC50 Fish 2.8-9,150 ug/L/ 96 hr.; EC50 Invertebrates 7-200 ug/L/48 hr.
Cobalt sulfate: LC50 Fish 1.51-85.3 mg/L/ 96 hr.; EC50 Invertebrates 2.62-5.89 mg/L/48 hr.
Cobalt carbonate: LC50 Fish 1.51-85.3 mg/L/ 96 hr.; EC50 Invertebrates 2.62-5.89 mg/L/48 hr.
Sodium selenite: LC50 Fish 2.06-5.19 mg/L/ 96 hr.; EC50 Invertebrates 550 ug/L/48 hr.
Vitamin A acetate: LC50 Fish 1.37 mg/L/ 96 hr.; EC50 Invertebrates 9.2 mg/L/48 hr.; EC50 Algae 103 ug/L/ 72 hr.

Bioaccumulative potential:

No information for product.

Persistence and degradability:

No information for product.

Mobility in soil:

No information for product.

Other adverse effects: None

Section 13: Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

Section 14: Transport Information

DOT Hazardous Materials Description: Not Regulated for transport.

Spills of this product over the RQ (reportable quantity) 33,333 lbs. must be reported to the National Response Center.

IMDG Dangerous Goods Description: Not Regulated for transport.

Section 15: Regulatory Information

U.S. Regulations:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA/SARA Title III – Section 302 Extremely Hazardous Substances and TPQs:

This material contains the following chemicals subject to the reporting requirements of Section 302 of SARA Title III and 40 CFR 370:

Sodium selenite

CAS# 10102-18-8 at <1%

CERCLA/SARA Title III - Section 311/312 (Hazard Categories)

Acute Health:	Yes
Chronic Health:	Yes
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

CERCLA/SARA Title III- Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Zinc sulfate monohydrate (As Zinc)	CAS# 7446-19-7 at < 3%
Copper (II) sulfate pentahydrate (As Copper)	CAS# 7758-99-8 at 2%
Cobalt sulfate (As Cobalt)	CAS# 10124-43-3 at <1%
Cobalt carbonate (As Cobalt)	CAS# 513-79-1 at <1%
Sodium selenite	CAS# 10102-18-8 at <1%

EPA (CERCLA) Reportable Quantity (in pounds):

Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for this product, based on the RQ for Zinc of 1000 lbs., is 33,333 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

California Proposition 65:

This product contains chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

Section 16: Other Information

Date of Issue:	07-Apr-2016
Status:	New SDS
Previous Issue Date:	N/A