

SAFETY DATA SHEETS

This SDS packet was issued with item:

078391962

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078688849 078917110

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078088707 078917105 078917121 078917146

MATERIAL SAFETY DATA SHEET

Sparhawk Laboratories
 12340 Santa Fe Trail Drive
 Lenexa, KS 66215

| | | |
|--|---|---|
| PRODUCT NAME-IDENTITY: Vitamin AD Injection | CHEMICAL FAMILY: Nutritional (Vitamin) | D.O.T. HAZARD CLASSIFICATION: Not Considered Hazardous |
|--|---|---|

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|---|---|
| MANUFACTURER NAME: Sparhawk Laboratories | EMERGENCY TELEPHONE #: |
| ADDRESS: 12340 Santa Fe Trail Drive Lenexa, Kansas 66215 | TELEPHONE # FOR INFORMATION: 913-888-7500 |
| | DATE PREPARED: 8/7/97 |

HAZARDOUS INGREDIENT IDENTITY INFORMATION

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| HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAMES): None considered hazardous: significant ingredients include Vitamin Propionate, Vitamin D ₃ , Vitamin E, N-methyl Pyrrolidone, Polyoxethylated Castor Oil, Propylene Glycol Dicaprylate, Polyxyethylene Sorbitanmonooleate. |
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PHYSICAL/CHEMICAL CHARACTERISTICS

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|---|---|
| BOILING POINT: Not established | SPECIFIC GRAVITY: |
| VAPOR PRESSURE (mm Hg.): Not established | MELTING POINT: N/A |
| VAPOR DENSITY (Air = 1): | EVAPORATION RATE: not determined (Butyl Acetate = 1) |
| SOLUBILITY IN WATER: Miscible | |
| pH: | |
| APPEARANCE AND ODOR: Yellow-orange viscous liquid | |

FIRE AND EXPLOSION HAZARD DATA

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|--|------------------|-----|-----|
| FLASH POINT (METHOD USED): Estimated -> 200 F | FLAMMABLE LIMIT: | LEL | UEL |
| | | N/A | N/A |
| EXTINGUISHING MEDIA: Water fog, alcohol foam dry chemical or carbon dioxide for surrounding fire. | | | |
| SPECIAL FIREFIGHTING PROCEDURE: Isolate hazard. Evacuate personnel. Move containers away from area of fire if possible. Use water spray to cool fire exposed containers. Fire fighters should wear self-contained breathing apparatus and protective clothing. | | | |
| UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors density may be heavier than air and travel to distant ignition sources. Eliminate ignition sources. | | | |

REACTIVITY DATA

| | | | |
|--|----------------|---|----------------------|
| STABILITY: | UNSTABLE | | CONDITIONS TO AVOID: |
| | STABLE | X | |
| HAZARDOUS DECOMPOSITION OF BYPRODUCTS: Exposure to fire may yield carbon monoxide, carbon dioxide and nitrous oxide fumes. | | | |
| INCOMPATIBILITY: (MATERIALS TO AVOID): Oxidizing and reducing agents, alkalis and caustic agents. | | | |
| HAZARDOUS POLYMERIZATION: | MAY OCCUR | | CONDITIONS TO AVOID: |
| | WILL NOT OCCUR | X | |

VITAMIN AD INJECTION

HEALTH HAZARD DATA

| | | |
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| ROUTES OF ENTRY: | | HEALTH HAZARD (ACUTE & CHRONIC): |
| SKIN/EYES? | Yes | Acute overexposure may cause irritation to eyes and skin. |
| INHALATION? | | |
| INGESTION? | Yes | Acute overexposure: Ingestion of large amounts may cause nausea or vomiting. |
| CARCINOGENICITY: N/A | | |
| TOXICITY: Product is essentially non-toxic nutritive substance. | | |
| SIGNS & SYMPTOMS OF EXPOSURE: May cause slight irritation to eyes and skin. Ingestion may result in nausea, vomiting and impaired renal functions. | | |
| MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Kidney conditions and impaired renal functions may be aggravated by long term chronic exposure. | | |
| EMERGENCY & FIRST AID PROCEDURES: Eyes: Flush with large amounts of water, and seek medical attention. Skin: Thoroughly wash area with soap and water. Inhalation: Provide fresh air and if necessary, give oxygen. Ingestion: Give several glasses of water to dilute and induce vomiting. If large amounts swallowed, seek medical attention. | | |

PRECAUTIONS FOR SAFE HANDLING AND USE

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| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill on inert material (i.e. dry sand or earth) - place in appropriate waste container for disposal. Flush area with detergent and water. |
| WASTE DISPOSAL METHOD: Follow local, state and federal disposal requirements. |
| PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store between 15° and 30° C (59°-86°F) |
| OTHER PRECAUTIONS: |

CONTROL & SPECIAL PROTECTION INFORMATION

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|---|-------------------------|
| RESPIRATORY PROTECTION: | |
| VENTILATION: LOCAL EXHAUST: Yes | SPECIAL: |
| MECHANICAL: | |
| PROTECTIVE GLOVES: Rubber | EYE PROTECTION: Goggles |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash stations and emergency showers should be provided. | |
| WORK/HYGIENIC PRACTICES: | |
| OTHER: | |


The above information is believed to be accurate and represents the best information available to us at the time this Material Safety Data Sheet was prepared. The information is provided to our customers in good faith; however, no warranty, expressed or implied, is made.

VITAMIN AD INJECTION

Section 1: Identification of the Substance and Supplier

Product Name Vitamin AD Injection
Recommended Use For use as a supplemental nutritive source of Vitamin A and D in cattle.
Company Details Sparhawk Laboratories Inc. 12340 Santa Fe Trail Dr. Lenexa, Ks. 66215
Emergency Telephone 800-424-9300
Date of Preparations 11/09/15

Section 2: Hazards Identification

Hazard Classification None
Priority Identifiers  Warning
Secondary Identifiers Acute overexposure may cause irritation to eyes and skin. Ingestion: Ingestion of large amounts may cause nausea or vomiting.
Risk & Safety Phrases None

Section 3: Composition/Information on Ingredients

| Chemical Name | CAS Number | Concentration |
|----------------------------------|------------|---------------|
| Benzyl Alcohol | 100-51-6 | 2.0 v/v |
| Ethox CO-30 | 61791-12-6 | 20.0 v/v |
| Neobee M-20 | 68583-51-7 | 10.0 v/v |
| N-methyl-d-pyrrolidone | 872-50-4 | 20.0 v/v |
| Polysorbate 80 | 9005-65-6 | 10.0 v/v |
| Vitamin A Propionate 2.5M IU/g | 7069-42-3 | 500,000 |
| Vitamin D ₃ 40 M IU/g | 67-97-0 | 75,000 |
| Vitamin E (1,100 IU/g) | 10191-41-0 | 5 IU |
| Ethox CO-30 | 61791-12-6 | QS |

Section 4: First Aid Measures

Necessary First Aid Measures
 Eyes: Flush with large amounts of water and see medical attention
 Skin: Thoroughly wash area with soap and water
 Inhalation: Provide fresh air and if necessary give oxygen
 Ingestion: Give several glasses of water to dilute and induce vomiting. If large amounts swallowed, seek medical attention.

Section 5: Fire Fighting Measures

Type of Hazard Not classified as flammable.
Fire Hazard Properties None Applicable
Regulatory Requirements None Applicable
Extinguishing Media and Methods Water fog, alcohol foam dry chemical or carbon dioxide for surrounding fire. Absorb spill on inert material and place in appropriate waste container for disposal. Flush area with detergent and water. Follow Federal, State and local disposal requirements.
Hazchem Code None Allocated.
Recommended Protective Clothing Self-contained breathing apparatus, rubber gloves and goggles.

Section 6: Accidental Release Measures

Emergency Procedures Self-contained breathing apparatus, rubber gloves and goggles. Absorb spill on inert material and place in appropriate waste container for disposal.

Section 7: Handling and Storage

Precautions for Safe Handling Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport or when not in use.

Regulatory Requirements None Required

Handling Practices Avoid contact with skin, eyes and mucosa. Keep containers adequately sealed when not in use.

Approved Handlers None Required.

Conditions for Safe Storage Container should be adequately sealed. Store at controlled room temperature between 15° and 30°C (59° – 86°F).

Store Site Requirements Protect from light and excessive heat.

Section 8: Exposure control/Personal Protection

Workplace Exposure Standards None Applicable

Application in the workplace None Applicable

Exposure standards outside the workplace None Applicable

Personal protection Self-contained breathing apparatus, rubber gloves and goggles.

Section 9: Physical and Chemical Properties

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| Appearance | Yellow-orange viscous liquid. |
| Boiling Point | Not Established. |
| Melting/Softening point | None Applicable. |
| Vapor Pressure | None Applicable |
| Specific Gravity | Not Established |
| Solubility (H ₂ O) | Miscible |
| Percent Volatiles | None Applicable |
| Evaporation Rates | None Applicable |

Section 10: Stability and Reactivity

Stability of the Substance Stable

Conditions to Avoid None

Material to Avoid Oxidizing and reducing agents, alkalis and caustic agents.

Hazardous Decomposition Products Carbon Monoxide, Carbon Dioxide and Nitrous Oxide fumes.

Section 11: Toxicological Information

Acute effects for individual ingredients only

May cause slight irritation to eyes and Skin. Ingestion may result in nausea, vomiting and impaired renal functions. Kidney conditions and impaired renal functions may be aggravated by long term chronic exposure.

Section 12: Environmental Information

Effects for individual ingredients only

None Applicable

Section 13: Disposal Considerations

Disposal Information Absorb spill on inert material and place in appropriate waste container for disposal. Follow Federal, State and local disposal requirements.

Reference None Applicable

Section 14: Transport Information

Relevant Information Not classified as a dangerous good for transport.

Section 15: Regulatory Information

Regulatory Status None Applicable

Section 16: Other Information

Additional Information For animal use only. Keep out of reach of children.