



STUARTPRODUCTS^{INC}

SAFETY DATA SHEET VITAL E-A+D Injection

1. Chemical name of active ingredients

D-ALPHA TOCOPHEROL, RETINYL PALMITATE, CHOLECALCIFEROL

CAS #	NOT APPLICABLE, MIXTURE
EINECS #	NOT APPLICABLE, MIXTURE
Country of Origin	United States of America
Product Use	NUTRITIONAL SUPPLEMENT
Synonym(s)	VITAMIN E, VITAMIN A, VITAMIN D3

Biological activity and equivalencies: INTERNATIONAL UNITS

Manufacturer/Supplier

STUART PRODUCTS, INC.
112 Bedford Road
Bedford, TX 76022 USA

General Information: (817) 590-2907

24-Hour Emergency: (817) 714-2102

2. Hazards identification

Classification of the product:

This contains vitamins that can affect body function; handle with care.

Appearance: Liquid Physical State: Liquid Odor: Characteristic Alcohol

Potential Physical Hazards: Combustible Liquid

Label elements



According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

CAUTION:

Contact with the eyes or skin may cause irritation.

Avoid contact with the skin, eyes and clothing.

Ensure adequate ventilation.

Due to alcohol content, product can ignite when exposed to open flame.

Potential Environmental Effects: There are no known ecological information for this product.

3. Composition / Information on Ingredients

Components (descending order)

	<u>CAS #</u>
d-alpha-tocopherol	59-02-9
Retinyl palmitate	79-81-2
Cholecalciferol	67-97-0
Proprietary liquid emulsion	
Ethanol (preservative)	64-17-5
Benzyl alcohol (preservative)	100-51-6

4: First Aid Measures

Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.
Skin contact	Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Ingestion	First aid is normally not required. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. Fire Fighting Measures

Flammable properties	Combustible liquid
Hazardous combustion	Water fog, Foam, Dry chemical powder, Carbon Dioxide (CO ₂) Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire Fighting:	Evacuate area and fight fire from a safe distance
Protective Equipment and Precautions for Firefighters	In the event of fire, wear self-contained breathing apparatus and special protective equipment for the fighters.

Other Information: Flammability Class (OSHA): II

6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment.
Methods for cleaning up	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

7. Handling and Storage

Handling	Observe good industrial hygiene practices. Ensure adequate ventilation.
Storage	Keep container closed. Store at temperatures less than 75 F.

8. Exposure Controls / Personal Protection

Occupational exposure limits	Ethanol: 1900 mg/m ³
Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties Melting

The product is soluble in water and organic solvents.

Form	Liquid
Freezing point	Not available.
Flash point	127 F (53 C)

Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available.
Vapor density	Not available.
Bulk Density	Approx. 0.96 g/mL
Auto-ignition temperature	approx. 186 C
Decomposition temperature	Not available.

10. Shelf-life, Chemical Stability & Reactivity Information

Shelf-life	Stored in its unopened packaging at max. 30 C, the product is stable for at least 24 months.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Excessive heat.
Incompatible materials	No materials to be especially mentioned.
Hazardous decomposition products:	None under normal use.
Possibility of hazardous reactions:	None under normal use.

Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	May cause mild skin and eye irritation.
Active Ingredients	Vitamin E- No toxicologic effect known. Vitamin A- Excessive intake may be toxic (> 25,000 I.U./kg bodyweight) Vitamin D- Excessive intake may be toxic
Sensitization	No sensitizing effects known.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Not Available
Bioaccumulation / Accumulation	Not Available
Partition coefficient (n-octanol/water)	Not Available
Mobility in environmental media	Not available.

The product is soluble in water.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

This material is regulated for transportation as a hazardous material/dangerous goods due to alcohol content.

Proper Shipping Name:	Consumer Commodity (Ethyl alcohol solution)
Identification Number:	UN1170
Hazard Class:	ORM-D
Packing Group:	III
DOT	Regulated as CONSUMER COMMODITY.
IATA	Regulated as CONSUMER COMMODITY.
IMDG	Regulated as dangerous goods. Hazard Class 3
TDG	Regulated as dangerous goods. Ethyl alcohol solution

Exceptions: For small quantities packed in combination packaging (limited to inner packaging less than or equal to 5.0 liters (1.3 gallons) and outer packaging less than or equal to 30 kg (66 lbs) gross weight, the following will apply. In addition, see "excepted quantity" provisions if applicable.

Note: If the commodity meets the definition of a limited quantity and is packaged for retail sale, it may be considered a CONSUMER COMMODITY and excepted from additional requirements as applicable.

15. Regulatory Information

US Federal Regulations

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Standard (29 CFR 1910.1200)

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Hazard categories

Health: 0 Fire: 1 Reactivity: 0

Delayed Hazard No

Fire Hazard - No Pressure Hazard - No Reactivity Hazard

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) Section 311/312 (40 CFR 370) No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Non-controlled

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Mexico regulations (NOM-018-STPS-2000). This safety data sheet was prepared in accordance with the Official Mexican Standard

16. Other Information

HMIS® ratings Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0
Flammability: 1
Instability: 0

Disclaimer To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described herein, we cannot guarantee that these are the only hazards that exist.

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