

MATERIAL SAFETY DATA SHEET

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Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME: VITAMIN D₃ & E Liquid

CHEMICAL NAME - Vitamin

CHEMICAL FAMILY - Vitamin D₃ & E Blend

FORMULA - Proprietary

DOT CLASS - Not Regulated by DOT

Section 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS NUMBER</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
8002-03-7	>=0.0 - < 0.1 %	Peanut oil
67-97-0	>=0.0 - < 0.1 %	Vitamin D3
91-53-2	>=0.0 - < =5.0 %	Ethoxyquin
71-23-8	>=0.0 - < =5.0 %	Propan-1-ol
7695-91-2	>=4.0 - <= 14.0 %	Vitamin E Acetate
8042-47-5	>=26.0 - <=36.0 %	White mineral oil (petroleum)
9004-96-0	>=45.0 - <=55.0 %	Oleic acid, ethoxylated

Section 3. HAZARD IDENTIFICATION

Emergency Overview

DANGER-Flammable Liquid, Ingestion may cause gastric disturbances, overexposure may cause weakness and muscular fatigue. May cause eye, skin, and respiratory tract irritation. Contains material that may cause adverse reproductive effects in females based on animal data.

Potential Health Effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion, and inhalation. routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Irritation:

May cause slight but temporary irritation to the eyes. Prolonged exposure to the product can result in irritation of the skin and mucous membranes. Skin contact may cause dermatitis.

Repeated dose toxicity:

Overexposure may cause reproductive effects, cancer, liver and kidney damage.

Medical conditions aggravated by overexposure:

Data available does not include that there are medical conditions that are generally recognized as being aggravated by exposure to the substance/product. See MSDS Section 11 (Toxicological information)

Section 4. FIRST-AID MEASURES

General advice:

Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.

If on skin: Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed: Rinse mouth and then drink plenty of water. Do not induce vomiting due to aspiration hazard. Immediate medical attention required.

Section 5. FIRE FIGHTING MEASURES

Flash Point: 109-113°F (Closed Cup)

Autoignition: No Data Available

Suitable extinguishing media: water fog, foam, dry extinguishing media

Unsuitable extinguishing media for safety reasons: water

Hazards during fire-fighting: No particular hazards known

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information: If exposed to fire, keep containers cool by spraying with water. Water or foam may cause frothing of the substance/product.

NFPA Hazard codes:

Health: 1 Fire: 2 Reactivity: 0 Special:

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions: Substance/product is RCRA hazardous due to its properties. Do not discharge into drains/surface waters/groundwater.

Cleanup: Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7. HANDLING AND STORAGE

Handling

General advice: Provide good ventilation of working area (local exhaust ventilation if necessary).
Wear suitable personal protective clothing and equipment.

Protection against fire and explosion: No explosion proofing necessary. Substance/product is flammable.
Keep away from sources of ignition-No smoking.

Storage

General advice: Avoid all sources of ignition: heat, sparks, open flame. Store at ambient temperature.
Keep container tightly closed.

SECTION 8. Exposure controls and personal protection

Components with workplace control parameters

propan-1-ol	OSHA	PEL 200 ppm 500mg/m ³ ;
	ACGIH	TWA value 200 ppm ; TWA value 200 ppm: STEL value 250 ppm ; Skin Designation; STEL value 400 ppm

Advice on system design: Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection: Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection: Chemical resistant protective gloves

Eye protection: Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General safety and hygiene measures: Wear protective clothing as necessary to prevent contact.
Avoid inhalation of vapours/mists. Wash spoiled clothing immediately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid, viscous
Odour:	moderate odour, characteristic
Colour:	amber
pH value:	7
Relative density:	1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid extreme heat. Avoid sources of ignition.

Substances to avoid: No substances known that should be avoided.

Hazardous reactions: The product is chemically stable.

Decomposition products: No hazardous decomposition products known.

Thermal decomposition: No data available.

Corrosion to metals: No corrosive effect on metal.

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SECTION 11. DISPOSAL CONSIDERATIONS

Waste disposal of substance: Incinerate or dispose of in a RCRA-licensed facility. Do not discharge into waterways or sewer systems without proper authorization.

Contaminated packaging: Empty containers with less than 1 inch of residue may be land filled at a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. If containers are not empty, they must be disposed of in a RCRA-licensed facility.

RCRA: D001

SECTION 12. TRANSPORT INFORMATION

Reference Bill of Lading

SECTION 13. REGULATORY INFORMATION

Federal Regulations

Registration status:
TSCA, US Released/Exempt

State Regulations

State RTK

<u>CAS Number</u>	<u>Chemical Name</u>	<u>State RTK</u>
8002-03-7	peanut oil	PA
71-23-8	propan-1-ol	MA, NJ, PA

CA Prop. 65: This product contains a chemical(s) known to the State of California to cause cancer.

SECTION 14. OTHER INFORMATION

HMIS III Rating

Health: 1 Flammability: 2 Physical Hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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