

MATERIAL SAFETY DATA SHEET

Page 1 of 2

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Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME: VITAMIN D₃ Liquid

CHEMICAL NAME - Vitamin Blend
CHEMICAL FAMILY - Vitamin D₃
FORMULA - Proprietary
DOT CLASS - Not Regulated by DOT

Section 11. HAZARDOUS INGREDIENTS OF MIXTURE - NONE

HMIS RATING	Hazard Rating Scale
0 = MINIMAL	HEALTH: 0
1 = SLIGHT	FIRE: 0
2 = MODERATE	REACTIVITY: 0
3 = SERIOUS	
4 = SEVERE	

Section 11.1. PHYSICAL DATA

COLOR:	Clear, Yellow Viscose oil
ODOR	Nearly Odorless
BOILING POINT	244C
VAPOR PRESSURE	147.5C
VAPOR DENSITY	N/A
SOLUBILITY IN WATER	Soluble in Alcohol
SPECIFIC GRAVITY (H₂O = 1)	0.9461 at 20C 0.9448 at 25C
MELTING POINT	N/A
EVAPORATION RATE (Butyl Acetate = 1)	N/A
pH	N/A

Section IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Water Spray, dry chemical, carbon dioxide, or foam, as appropriate for surrounding fire and materials.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate personal to an area of upwind direction and remove unneeded materials; keep fire-exposed containers cool with water spray, and provide firefighters with self-contained breathing equipment.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Applicable.

Section V. HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation, Skin, Ingestion.

HEALTH HAZARDS: (Acute and Chronic) - N/E

CARCINOGENICITY: N/E

EFFECTS OF OVEREXPOSURE: Excessive oral intake will cause fatigue, weakness and nausea, all of which will cease upon withdrawal from Vitamin intake.

Section VI. EMERGENCY AND FIRST AID PROCEDURES

EYES: Irrigate surfaces with running water thoroughly and consult Physician if any discomfort persists.

SKIN: Flush area with soap and water.

Section VII. REACTIVITY DATA - Vitamin D₃ Liquid is stable.

CONDITIONS/HAZARDS TO AVOID: Relatively stable towards atmospheric oxygen. It is hydrolyzed by moisture in the presence of alkalis or strong acids to free alpha-tocopherol, which is then rapidly oxidized by air.

INCOMPATIBILITY: Alkalis, oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Non/oxidized material might be irritating to skin.

POLYMERIZATION: Does not occur.

SECTION VIII. SPILL, LEAK, AND DISPOSAL INFORMATION

IN CASE OF SPILL OR LEAK: Wipe small spills with suitable absorbent; dike larger spills and transfer to labeled containers.

WASTE DISPOSAL METHOD: Transport soiled absorbents to an approved incinerator. Recycle bulk material.

SECTION IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not needed

VENTILATION: Mechanical acceptable

SKIN PROTECTION: Rubber

EYE PROTECTION: Safety glasses

OTHER CLOTHING OR EQUIPMENT: None

WORK/HYGENIC PRACTICES: Standard good manufacturing and industrial hygiene practices should be followed.

SECTION X. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store within airtight, light-resistant glass containers under C0₂. Avoid rubber.

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