

SECTION 1. IDENTIFICATION

- Product identifier
- Trade name: Vitamin DE
- Part number: EZ071
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Use of the Substance/Mixture
 - Premix for Animal Feeds
- Details of the supplier of the Safety Data Sheet
- Distributor:
 - ClearView Enterprises
 - 451 Agnes Drive
 - Tontitown, AR 72770
 - (866)361-4689
- Emergency telephone number:
 - ChemTel Inc.
 - (800)255-3924

SECTION 2. HAZARD(S) IDENTIFICATION

Emergency Overview

CAUTION:

Appearance ----- liquid

Odor ----- No information provided.

GHS Classification

Flammable liquids : Category 3

Serious eye damage : Category 1

GHS Label element

Hazard pictograms : 



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapor.
: H318 Causes serious eye damage

Precautionary statements : Prevention:
P219 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P240 Ground bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P315 Get immediate medical advice/attention.

P370 + P378 In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/containers to approved waste disposal Plant.

Potential Health Effects:

Eyes : Causes eye irritation

Aggravated Medical Condition: Eyes

Symptoms of Overexposure : No specific symptoms known.

Carcinogenicity:

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Brief description of the product : Mixture

Hazardous Components

Component	CAS-No.	Weight percent
Polyethylene glycol	25322-68-3	10-20
n-propanol	71-23-8	5-10
ethoxyquin	91-53-2	1-5

SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	: in the case of contact with eyes, rinse immediately with plenty of water and seek medical advice Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital. Small amounts splashed into eyes can cause Irreversible tissue damage and blindness.
If swallowed	: Clean mouth with water and drink afterwards plenty of Water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention. DO NOT induce vomiting.
Most important symptoms And effects, both acute and Delayed.	: No specific symptom known.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point	: 122.0°F-(50°C)
Ignition temperature	: not determined
Lower explosion limit	: not determined
Upper explosion limit	: not determined

Fire fighting

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Fire residues and contaminated fire extinguishing water Must be disposed of in accordance with local regulations. Use water spray to cool unopened containers.

Protective equipment and precautions for firefighters

- Specific hazards during fire-fighting** : None known
- Special protective equipment for Fire-fighters** : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures.** : Evacuate personnel to safe areas.
Use person protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Beware if vapors accumulating to form explosive concentration. Vapors can accumulate in low areas.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
- Methods and materials for containment and cleaning up.** : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13.)

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling** : Avoid contact with skin and eyes.
For personal protection see Section 8.
To avoid spills during handling keep bottle on a metal tray.
Container may be opened only under exhaust ventilation hood.
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion** : Keep away from sources of ignition-No smoking.
Take necessary action to avoid static electricity discharge.
Avoid formation of aerosol.
- Conditions for safe storage** : No smoking.
Keep container tightly closed and dry.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations/working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL

Components with workplace control parameters.

Components	CAS-No.	Value type (form of exposure)	Control parameters/ Permissible concentration	Basis
polyethylene glycol	25322-68-3	TWA (aerosol)	10 mg/m ³	US WEEL
n-propanol	71-23-8	TWA	100 ppm	ACGIH
		TWA	200 ppm 500 mg/m ³	OSHA Z-1
		TWA	200 ppm	NIOSH REL
			500 MG/M ³	
		ST	250 PPM 625 MG/M ³	NIOSH REL

Personal protective equipment

- Respiratory protection** : In the case of vapor formation use a respirator with an approved filter.
- Hand protection** : Glove material: for example, nitrile rubber.
- Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.
Solvent-resistant gloves.
Gloves should be discarded and replaced if there is an indication of degradation or chemical breakthrough.
- Eye protection** : Safety glasses with side-shields.
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures** : Avoid contact with skin, eyes, and clothing.
Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Appearance	: liquid
Odor	: No information available
Odor Threshold	: No information available
pH	: No data available
Melting point/range	: not determined
Boiling point/boiling range	: not determined
Flash point	: 50.0°C
Evaporation rate	: not determined
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Vapor pressure	: not determined
Relative vapor density	: Not applicable
Density	: not determined
Water Solubility	: not determined
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Ignition temperature	: not determined
Thermal decomposition	: No data available
Viscosity, dynamic	: not determined
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No hazards to be specially mentioned.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Possible incompatibility with materials listed under section 10.5.
Conditions to avoid	: Heat, flames and sparks.

Incompatible materials	: Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products	: No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: Acute toxicity estimate; >5,000 mg/kg (Calculation method)
Acute dermal toxicity polyethylene glycol	: LD50 (Rabbit): >20,000 mg/kg
Skin irritation	: May cause skin irritation is susceptible persons.
Eye irritation	: May irritate eyes.
Sensitization/polyethylene glycol	: Does not cause skin sensitization. (Guinea pig, Buehler Test, OECD test Guideline 406.
Genotoxicity in vitro polyethylene glycol	: not mutagenic (Ames Test, OECD Test Guideline 471)
STOT-single exposure Acute exposure n-propanol	: May cause drowsiness or dizziness.
Further information	: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish polyethylene glycol	: Cyorinus carpio (Carp) LC50 (96 h) > 100 mg/l (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates. polyethylene glycol	: Daphnia magna (Water flea) EC50 (48 h) > 100 mg/l (OECD test Guide line 202)
ethoxyquin	: Crustaceans EC50 (48 h) 2mg/l
No data is available on the product itself.	
Persistence and degradability	
Biodegradability polyethylene glycol	: Readily biodegradable >70% (21 d) (OECD Test Guideline 301A)
No data is available on the product itself.	
Bioaccumulation potential	
Bioaccumulation	: No data available
Partition coefficient: n-octanol/water	: Not applicable

Mobility in soil

Distribution among environmental compartments. : No data available

Results of PBT and vPvB assessment

Assessment : Not applicable

Other adverse effects

Regulation : 40 CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone – CAA section 602 Class 1 Substances.

Remarks : This product neither contains, nor was manufactured with a Class I or Class ii ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A. App. A = B).

Additional ecological information : Harmful to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national/local legislation.

Discharge into the environment must be avoided.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG
Not regulated as a dangerous good.

IATA-DGR
Not regulated as a dangerous good.

IMDG-Code
Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

49 CFR
Not regulated as a dangerous good

Remarks

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant

: Not relevant

EPCRA – Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity : this material does not contain any components with a
CERCLA RQ

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 3

SARA 313 : This material does not contain any chemical components with
known CAS numbers that exceed the threshold (De Minimis)
reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68,130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCOMI intermediate or Final VOC's (40 CFR 60, 489):

Polyethylene glycol	25322-68-2	12.3347%
n-propanol	71-23-8	5.9701%

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. CleanWater Act Section 307.

Massachusetts Right To Know

n-propanol	71-23-8	5 – 10 %
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Pennsylvania Right To Know

Polyoxyethylene	9004-96-0	30-50%
Poloxyethylene sorbitan monooleate	9005-65-6	10-20%
polyethylene	25322-68-3	10-20%
3,4-dihydro-2,5,7,8-tetramethyl-2(4,8,12-trimethyltridecyl)-2H-benzopyran-6yl acetate.	7695-91-2	5-10%
n-propanol	71-23-8	5-10%

New Jersey Right To Know

Polyoxyethylene	9004-96-0	30-50%
Poloxyethylene sorbitan monooleate	9005-65-6	10-20%
polyethylene	25322-68-3	10-20%
3,4-dihydro-2,5,7,8-tetramethyl-2(4,8,12-trimethyltridecyl)-2H-benzopyran-6yl acetate.	7695-91-2	5-10%
n-propanol	71-23-8	5-10%

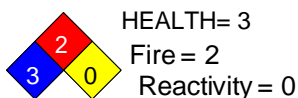
The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HEALTH	3
FIRE	2
PHYSICAL HAZARD	0

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific materials designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Abbreviations: ACGHI = American Conference of Governmental Industries Hygienist. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace hazardous Material Information System.