

# Safety Data Sheet

## Microvit Natural E/D3 DLC

SDS Revision Date:

07/13/2016



### 1. Identification

#### 1.1. Product identifier

**Product Identity**

Microvit Natural E/D3 DLC

**Alternate Names**

Microvit Natural E/D3 DLC

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

See Technical Data Sheet.

**Application Method**

See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name**

Adisseo USA Inc.  
4400 North Point Pkwy, Suite 275  
Alpharetta, GA 30022

**Emergency**

**24 hour Emergency Telephone No.**

Carechem24 Toll Free (800) 727-5083

**Customer Service: Adisseo USA Inc.**

For Product Information: (800) 727-1019  
Tel. 678.339.1500 – Fax 678.339.1600

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Flam. Liq. 3;H226

Flammable liquid and vapor.

Acute Tox. 4;H332

Harmful if inhaled.

Eye Dam. 1;H318

Causes serious eye damage.

STOT RE 1;H372

Causes damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

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H226 Flammable liquid and vapor.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P314 Get Medical advice / attention if you feel unwell.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations   | Weight % | GHS Classification | Notes |
|--|----------|--------------------|-------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated<br>CAS Number: 0025322-68-3 | 75 - 100 | Not Classified     | [1]   |

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|  |         |   |     |
|--|---------|---|-----|
| Sorbitan monooleate, ethoxylated<br>CAS Number: 0009005-65-6 | 10 - 25 | Not Classified  | [1] |
| Ethyl (S)-2-hydroxypropionate<br>CAS Number: 0000687-47-8    | 5 - 10  | Flam. Liq. 3;H226<br>STOT SE 3;H335<br>Eye Dam. 1;H318                        | [1] |
| Vitamin D3<br>CAS Number: 0000067-97-0                       | 1 - 5   | Acute Tox. 2;H330<br>Acute Tox. 3;H311<br>Acute Tox. 3;H301<br>STOT RE 1;H372 | [1] |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | SPECIAL NOTE FOR PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available. |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.   |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.  |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.   |
| <b>Ingestion</b>  | If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                   |   |
|-------------------|---|
| <b>Overview</b>   | Acute Eye: Contact with liquid or vapor can cause irritation and redness.<br>Acute Skin: Low acute dermal toxicity. Liquid or vapor can cause irritation and redness on prolonged contact.<br>Acute Inhalation: Vapor can cause respiratory tract irritation, intoxication and loss of coordination.<br>Acute Ingestion: Toxic if ingested. Ingestion of large quantities may cause vomiting, diarrhea and headache.<br>Medical Conditions Possibly Aggravated by Exposure: Adverse effects may arise if taking anticoagulants, colestipol, cholestyramine, mineral oil, oral contraceptives, Vitamin A therapy, Vitamin E therapy See section 2 for further details. |
| <b>Inhalation</b> | Harmful if inhaled.   |
| <b>Eyes</b>       | Causes serious eye damage.  |

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### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Do not use: water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

#### 5.3. Advice for fire-fighters

Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

Closed containers may rupture due to buildup of pressure when exposed to extreme heat.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective gear for the situation. (See Personal Protection information in Section 8). Eliminate all sources of ignition until the area is determined to be free from explosion or fire hazards.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

#### 6.3. Methods and material for containment and cleaning up

Absorb with an inert absorbent. Sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal. Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Avoid breathing vapors. Avoid direct or prolonged contact with skin and eyes. Use non-sparking tools and grounded/bonded equipment and containers when transferring.

See section 2 for further details. - [Prevention]:

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### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong bases, strong acids and strong oxidizing agents

Maximum Storage Temperatures: Store at <43C (<109F)

Store in tightly-closed, original container. Store in an area that is cool, dry, dark and well-ventilated.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

| CAS No.      | Ingredient   | Source   | Value                |
|--------------|--|----------|----------------------|
| 0000067-97-0 | Vitamin D3   | OSHA     | No Established Limit |
|              |  | ACGIH    | No Established Limit |
|              |  | NIOSH    | No Established Limit |
|              |  | Supplier | No Established Limit |
| 0000687-47-8 | Ethyl (S)-2-hydroxypropionate  | OSHA     | No Established Limit |
|              |  | ACGIH    | No Established Limit |
|              |  | NIOSH    | No Established Limit |
|              |  | Supplier | No Established Limit |
| 0009005-65-6 | Sorbitan monooleate, ethoxylated   | OSHA     | No Established Limit |
|              |  | ACGIH    | No Established Limit |
|              |  | NIOSH    | No Established Limit |
|              |  | Supplier | No Established Limit |
| 0025322-68-3 | Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | OSHA     | No Established Limit |
|              |  | ACGIH    | No Established Limit |
|              |  | NIOSH    | No Established Limit |
|              |  | Supplier | No Established Limit |

### 8.2. Exposure controls

#### Respiratory

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with regulatory standards and/or industrial recommendations. Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against organic vapors is recommended.

#### Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

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|                             |   |
|-----------------------------|---|
| <b>Skin</b>                 | Skin contact should be minimized through the use of chemical-resistant gloves, and suitable protective clothing.  |
| <b>Engineering Controls</b> | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.   |
| <b>Other Work Practices</b> | The following general measures should be taken when working or handling this material: 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin promptly to remove accidental splashes of contact with this material. |

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Liquid   |
| <b>Odor</b>  | Slight   |
| <b>Odor threshold</b>                                  | Not determined   |
| <b>pH</b>  | Not Measured   |
| <b>Melting point / freezing point</b>                  | Not Measured   |
| <b>Initial boiling point and boiling range</b>         | Not Measured   |
| <b>Flash Point</b>                                     | 130 F  |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Measured   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Not Measured   |
| <b>Vapor Density</b>                                   | Not Measured   |
| <b>Specific Gravity</b>                                | Not Measured   |
| <b>Solubility in Water</b>                             | Not Measured   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>Density</b>   | 0.99 g/ml  |

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

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### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Combustible materials, heat, open flame and sparks.

### 10.5. Incompatible materials

Strong bases, strong acids and strong oxidizing agents

### 10.6. Hazardous decomposition products

Oxides of carbon

## 11. Toxicological information

### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Ingredient  | Oral LD50,<br>mg/kg              | Skin LD50,<br>mg/kg                    | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|---|----------------------------------|--|---------------------------------------|---|--------------------------------|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated - (25322-68-3) | 30,200.00, Rat -<br>Category: NA | 20,001.00,<br>Rabbit -<br>Category: NA | No data<br>available                  | No data<br>available                      | No data<br>available           |
| Sorbitan monooleate, ethoxylated - (9005-65-6)  | No data<br>available             | No data<br>available                   | No data<br>available                  | No data<br>available                      | No data<br>available           |
| Ethyl (S)-2-hydroxypropionate - (687-47-8)  | No data<br>available             | No data<br>available                   | No data<br>available                  | No data<br>available                      | No data<br>available           |
| Vitamin D3 - (67-97-0)  | No data<br>available             | No data<br>available                   | No data<br>available                  | 0.255, Rat -<br>Category: 2               | No data<br>available           |

### Carcinogen Data

| CAS No.      | Ingredient                       | Source | Value  |
|--------------|----------------------------------|--------|--|
| 0000067-97-0 | Vitamin D3                       | OSHA   | Select Carcinogen: No  |
|              |                                  | NTP    | Known: No; Suspected: No   |
|              |                                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0000687-47-8 | Ethyl (S)-2-hydroxypropionate    | OSHA   | Select Carcinogen: No  |
|              |                                  | NTP    | Known: No; Suspected: No   |
|              |                                  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0009005-65-6 | Sorbitan monooleate, ethoxylated | OSHA   | Select Carcinogen: No  |
|              |                                  | NTP    | Known: No; Suspected: No   |

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|              |  |      |  |
|--------------|--|------|--|
|              |  | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0025322-68-3 | Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated | OSHA | Select Carcinogen: No  |
|              |  | NTP  | Known: No; Suspected: No   |
|              |  | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

| Classification                | Category | Hazard Description  |
|-------------------------------|----------|---|
| Acute toxicity (oral)         | ---      | Not Applicable  |
| Acute toxicity (dermal)       | ---      | Not Applicable  |
| Acute toxicity (inhalation)   | 4        | Harmful if inhaled.   |
| Skin corrosion/irritation     | ---      | Not Applicable  |
| Serious eye damage/irritation | 1        | Causes serious eye damage.                                      |
| Respiratory sensitization     | ---      | Not Applicable  |
| Skin sensitization            | ---      | Not Applicable  |
| Germ cell mutagenicity        | ---      | Not Applicable  |
| Carcinogenicity               | ---      | Not Applicable  |
| Reproductive toxicity         | ---      | Not Applicable  |
| STOT-single exposure          | ---      | Not Applicable  |
| STOT-repeated exposure        | 1        | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard             | ---      | Not Applicable  |

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

| Ingredient  | 96 hr LC50 fish, mg/l       | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l                                |
|---|-----------------------------|----------------------------|--|
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated - (25322-68-3) | 101.00, Poecilia reticulata | 357.142, Daphnia magna     | 398.913 (72 hr), Pseudokirchneriella subcapitata |
| Sorbitan monooleate, ethoxylated - (9005-65-6)  | Not Available               | Not Available              | Not Available                                    |
| Ethyl (S)-2-hydroxypropionate - (687-47-8)  | Not Available               | Not Available              | Not Available                                    |
| Vitamin D3 - (67-97-0)  | Not Available               | Not Available              | Not Available                                    |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential



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Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

Not provided.

## 15. Regulatory information

|   |  |
|---|--|
| <b>Regulatory Overview</b>                | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.                                  |
| <b>Toxic Substance Control Act (TSCA)</b> | All components of this material are either listed or exempt from listing on the TSCA Inventory.  |
| <b>WHMIS Classification</b>               | B3 D2A E   |
| <b>US EPA Tier II Hazards</b>             | <b>Fire:</b> Yes<br><b>Sudden Release of Pressure:</b> No<br><b>Reactive:</b> No<br><b>Immediate (Acute):</b> Yes<br><b>Delayed (Chronic):</b> Yes |

### EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

Disclaimer: The information and recommendations in this data sheet are believed to be correct and reliable. However, the data are offered for consideration and verification by the user and Adisseo Canada Inc. offers no guarantee, warranty or representation as to the accuracy or completeness of the data.

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