

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** TEGO® Variplus DS 50

**Chemical name:**

Aqueous polyurethane polyol dispersion

**Other means of identification**

**Recommended restrictions**

**Recommended use:** Industrial Use

**Restrictions on use:** None known.

**Manufacturer/Importer/Distributor Information**

Company Name : Evonik Corporation  
Nutrition & Care  
PO Box 34628  
Richmond, VA 23234  
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Hazard Classification

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** No labeling is required under Regulation 29 CFR 1910.1200 (US GHS).

**Precautionary Statements** Not a hazardous substance or mixture.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Chemical name:**

Aqueous polyurethane polyol dispersion

**Mixtures**

Chemical Identity	CAS number	Content in percent (%) <sup>*</sup>
2-Ethylhexane-1,3-diol	94-96-2	<0.05%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

**Description of necessary first-aid measures**

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	Ensure supply of fresh air. In the event of symptoms seek medical advice.
<b>Skin Contact:</b>	In case of contact with skin wash off immediately with plenty of water In the event of symptoms seek medical advice.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical advice.
<b>Ingestion:</b>	Thoroughly clean the mouth with water In the event of symptoms seek medical advice.
<b>Personal Protection for First-aid Responders:</b>	Do not inhale explosion and/or combustion gases, Self-contained breathing apparatus.

**Most important symptoms/effects, acute and delayed**

<b>Symptoms:</b>	No special hints.
<b>Hazards:</b>	No data available.

**Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	Treat symptomatically.
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### 5. Fire-fighting measures

**Suitable (and unsuitable) extinguishing media**

<b>Suitable extinguishing media:</b>	foam, carbon dioxide, dry powder, water spray.
<b>Unsuitable extinguishing media:</b>	Full water jet

<b>Specific hazards arising from the chemical:</b>	In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded
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**Special protective equipment and precautions for firefighters**

<b>Special fire fighting procedures:</b>	No specific precautions.
<b>Special protective equipment for fire-fighters:</b>	Do not inhale explosion and/or combustion gases Self-contained breathing apparatus.

<b>6. Accidental release measures</b>
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<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment.
<b>Methods and material for containment and cleaning up:</b>	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
<b>Environmental Precautions:</b>	Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

<b>7. Handling and storage</b>
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**Handling**

<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.No special measures necessary if stored and handled as prescribed.
<b>Contact avoidance measures:</b>	No data available.
<b>Hygiene measures:</b>	Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

**Storage**

<b>Safe storage conditions:</b>	Keep container closed.
<b>Safe packaging materials:</b>	No data available.

<b>8. Exposure controls/personal protection</b>
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**Control Parameters**
**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** This product is not classified as a hazardous substance. Any necessity for eye protection must be determined within the scope of a risk assessment.

**Skin Protection**

<b>Hand Protection:</b>	Additional Information: gloves made of nitril (NBR), The protective gloves to be worn must satisfy the specifications of Regulation (EU) 2016/425 and the resulting Standard EN374., Specific workplace situations must be considered separately.
<b>Skin and Body Protection:</b>	protective clothing
<b>Respiratory Protection:</b>	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
<b>Hygiene measures:</b>	Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Opaque
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	8.5 - 9.5 (23 °C)
<b>Freezing point:</b>	approx. 130 - 150 °C
<b>Boiling Point:</b>	not measured
<b>Flash Point:</b>	> 200 °F
<b>Evaporation Rate:</b>	not measured
<b>Flammability (solid, gas):</b>	no data available

<b>Explosive limit - upper (%):</b>	not measured
<b>Explosive limit - lower (%):</b>	not measured
<b>Vapor pressure:</b>	23 hPa (20 °C)
<b>Vapor density (air=1):</b>	not measured
<b>Density:</b>	1.054 g/cm <sup>3</sup>
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	approx. 400 mPa.s (23 °C)
<b>Other information</b>	
<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not measured
<b>Minimum ignition temperature:</b>	Not applicable
<b>Metal Corrosion:</b>	not measured

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions"
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<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling.
<b>Conditions to avoid:</b>	Unknown
<b>Incompatible Materials:</b>	Unknown
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.
<b>Skin Contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Eye contact:</b>	Relevant route of exposure. Information on effects are given below.
<b>Ingestion:</b>	If handled correctly, not a relevant route of exposure. Information on effects are given below.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	LD 50 (Rat): > 2,000 mg/kg
<b>Dermal</b>	
<b>Product:</b>	no data available
<b>Inhalation</b>	
<b>Product:</b>	no data available

<b>Repeated dose toxicity</b>	
<b>Product:</b>	no data available

<b>Skin Corrosion/Irritation</b>	
<b>Product:</b>	no data available

<b>Serious Eye Damage/Eye Irritation</b>	
<b>Product:</b>	no data available

<b>Respiratory or Skin Sensitization</b>	
<b>Product:</b>	no data available

**Carcinogenicity****Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity****In vitro****Product:** bacterial reverse mutation assay (e.g. Ames test) (OECD 471): negative**In vivo****Product:** No data available.**Reproductive toxicity****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** no data available**Specific Target Organ Toxicity - Repeated Exposure****Product:** no data available**Aspiration Hazard****Product:** Not classified**Other effects:**

Proper use provided, no adverse health effects have been observed or have been come to our knowledge.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.

**Toxicity to Aquatic Plants****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**BOD/COD Ratio****Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: not measured**Mobility in soil:**

No data available.

**Components:**

2-Ethylhexane-1,3-diol No data available.

**Other adverse effects:**

Do not allow to enter soil, waterways or waste water canal. Do not allow to enter soil, waterways or waste water canal.

**13. Disposal considerations****Disposal methods:**

In accordance with local authority regulations, take to special waste incineration plant

**Contaminated Packaging:**

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

**14. Transport information****Domestic regulation****49 CFR**

Not regulated as a dangerous good

**International Regulations****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.

**15. Regulatory information**
**US Federal Regulations**
**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Formaldehyde	Acute toxicity Skin irritation Skin sensitization Flammability Respiratory tract irritation. Respiratory sensitization Cancer Eye irritation

**CERCLA Hazardous Substance List (40 CFR 302.4):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanone, 1-phenyl-	5000 lbs.
Formaldehyde	100 lbs.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
**Hazard categories**  
 Not classified

**SARA 302 Extremely Hazardous Substance**

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Formaldehyde	100 lbs.	500 lbs.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**
**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Formaldehyde	500 lbs

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Formaldehyde	15000 lbs

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.



## US State Regulations

### US. California Proposition 65



**WARNING:** This product can expose you to chemicals including, Formaldehyde, which is [are] known to the State of California to cause cancer.

### US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

### Inventory Status:

US TSCA Inventory: Included on Inventory.  
 Canada DSL Inventory List: Included on Inventory.

### 16. Other information, including date of preparation or last revision

### HMIS Hazard ID

<b>Health</b>	1
<b>Flammability</b>	1
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	X

Ask supervisor or safety specialist for handling instructions

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

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**Version #:** 1.1

**Further Information:** none

**Revision Information:** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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