

# 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 7801 Whitepine Road Richmond, VA 23237 USA	
Telephone	: +1 804 727 0700	
Fax	: +1 804 727 0845	
E-mail	: product-regulatory-services@evonik.com	
Emergency telephone number:		

#### 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 (%)*
2-Ethylhexane-1.3-diol	94-96-2	<0.05%

\* 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	
General information:	Remove soiled or soaked clothing immediately	
Inhalation:	Ensure supply of fresh air. In the event of symptoms seek medical advice.	
Skin Contact:	In case of contact with skin wash off immediately with plenty of water In the event of symptoms seek medical advice.	
Eye contact:	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical advice.	
Ingestion:	Thoroughly clean the mouth with water In the event of symptoms seek medical advice.	
Personal Protection for First- aid Responders:	Do not inhale explosion and/or combustion gases, Self-contained breathing apparatus.	
Most important symptoms/effects, acute and delayed		
Symptoms:	No special hints.	
Hazards:	No data available.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.	
Unsuitable extinguishing media:	Full water jet	

Specific hazards arising from<br/>the chemical:In the event of fire the following can be released: - carbon dioxide, carbon<br/>monoxide Under certain conditions of combustion traces of other toxic<br/>substances cannot be excluded

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Special protective equipment an	a precautions for menginers
Special fire fighting procedures:	No specific precautions.
Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases Self-contained breathing apparatus.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
Environmental Precautions:	Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.
7. Handling and storage	
Handling	
Technical measures (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.No special measures necessary if stored and handled as prescribed.
Contact avoidance measures:	No data available.
Hygiene measures:	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	
Safe storage conditions:	Keep container closed.
Safe packaging materials:	No data available.
8. Exposure controls/personal pro	otection
Control Parameters Occupational Exposure Limit	<b>ts</b> 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	

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Hand Protection:	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.
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Opaque
Odor:	Slight
Odor Threshold:	not measured
pH:	8.5 - 9.5 (23 °C)
Freezing point:	approx. 130 - 150 °C
Boiling Point:	not measured
Flash Point:	> 200 °F
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available
Explosive limit - upper (%):	not measured
Explosive limit - lower (%):	not measured
Vapor pressure:	23 hPa (20 °C)
Vapor density (air=1):	not measured
Density:	1.054 g/cm3
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 400 mPa.s (23 °C)
Other information	
Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition temperature:	Not applicable
Metal Corrosion:	not measured

## 10. Stability and reactivity

**Reactivity:** 

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see section "Possibility of hazardous reactions"



Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling.
Conditions to avoid:	Unknown
Incompatible Materials:	Unknown
Hazardous Decomposition Products:	None with proper storage and handling.

# 11. Toxicological information

Information on likely routes of exposure Inhalation: If handled correctly, not a relevant route of exposure. Information on effects are given below.			
Skin Contact:	Relevant route of exposure. Information on effects are given below.		
Eye contact:	Relevant route of exposure. Information on effects are given below.		
Ingestion:	If handled correctly, not a relevant route of exposure. Information on efference are given below.	ects	
Symptoms related to the physic	cal, chemical and toxicological characteristics		
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Ingestion:	No data available.		
Information on toxicological eff	Information on toxicological effects		
Acute toxicity (list all possib	le routes of exposure)		
Oral Product:	LD 50 (Rat): > 2,000 mg/kg		
Dermal Product:	no data available		
Inhalation Product:	no data available		
Repeated dose toxicity Product:	no data available		
Skin Corrosion/Irritation Product:	no data available		
Serious Eye Damage/Eye Irrita Product:	tion no data available		
Respiratory or Skin Sensitizati Product:	on no data available		
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#### 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 - Product:	Single Exposure 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.	

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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 (BC Product:	<b>CF)</b> No data available.
Partition Coefficient n-octanol / v Product:	vater (log Kow) Log Kow: not measured
Mobility in soil:	No data available.
<b>Components:</b> 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)

Chemical Identity	OSHA hazard(s)
Formaldehyde	Acute toxicity
-	Skin irritation
	Skin sensitization
	Flammability
	Respiratory tract irritation.
	Respiratory sensitization
	Cancer
	Eye irritation
	-

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

Chemical Identity	Reportable quantity
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

Chemical Identity	<u>Reportable</u> quantity	Threshold Planning Quantity
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	
Chemical Identity	Threshold Planning Quantity

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):

Chemical Identity	Reportable quantity
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**



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

Issue Date:	06/07/2019
Version #:	1.1
Further Information:	none
<b>Revision Information:</b>	Changes since the last version are highlighted in the margin. This version replaces all previous versions.



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