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# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

# 1. Identification

Product identifier: TEGO VARIPLUS 1201 TF

Chemical name:

Polyurethane polyol resin

Other means of identification

None

**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:** 

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**

#### **Physical Hazards**

Flammable liquids Category 2

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 2A Specific Target Organ Toxicity -Category 3 Single Exposure (Narcotic effect.)

#### **Label Elements**

#### **Hazard Symbol:**



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Signal Word: Danger

**Hazard Statement:** 

Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective

clothing/ eye protection/ face protection/ hearing protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged

even in bonded and grounded equipment.

# 3. Composition/information on ingredients

#### Chemical name:

Polyurethane polyol resin

#### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*	
Ethyl acetate		141-78-6	>=50 - <70%	
***************************************				

<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.



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#### 4. First-aid measures

# **Description of first aid measures**

General information: Remove soiled or soaked clothing immediately

**Inhalation:** fresh air supply, consult a doctor if feeling unwell.

**Skin Contact:** In case of contact with skin wash off immediately with plenty

of water In case of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of

water. If symptoms persist, seek medical advice.

**Ingestion:** Thoroughly clean the mouth with water In case of

discomfort: Supply with medical care.

**Personal Protection for First-aid** 

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Serious eye irritation Depending on the dose inhalation

and/or ingestion may cause: headache, inebriation,

unconsciousness.

**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: Water spray. Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** High volume water jet.

Special hazards arising from the

substance or mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Nitrogen oxides (NOx) Under certain conditions of combustion traces of other toxic

substances cannot be excluded

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** Keep away from sources of ignition - no smoking. Take

action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by

water spray

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combustion gases. Self-

contained breathing apparatus.



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#### 6. Accidental release measures

Personal precautions, protective

equipment and emergency procedures:

Use personal protective equipment. Keep away sources of

ignition. Ensure adequate ventilation.

Accidental release measures: No data available.

Methods and material for containment

and cleaning up:

Take up with absorbent material (eg sand, diatomaceous earth, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations.

**Environmental Precautions:** Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

# 7. Handling and storage

#### Handling

**Technical measures:** No data available.

Local/Total ventilation: No data available.

Safe handling advice: Do not inhale gases/vapours/aerosols. Avoid contact with

skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory protection

during spraying.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Lim	it Values	Source
Ethyl acetate	TWA	400 ppm		ACGIH (03 2016)
	REL	400 ppm	1,400 mg/m3	NIOSH (2010)
	PEL	400 ppm	1,400 mg/m3	OSHA Z1 (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

# **Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**Appropriate Engineering Controls** No data available.

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#### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Safety glasses

**Skin Protection** 

**Hand Protection:** Material: Nitrile rubber.

Break-through time: 480 min

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:** Wash hands before breaks and immediately after handling

the product. Remove soiled or soaked clothing immediately.

When using do not eat, drink or smoke.

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid

Color: colorless to yellowish

Odor: solvent-like
Odor Threshold: not measured
Freezing point: not measured
Boiling Point: Approximate
167 °F/75 °C

167 °F/75 Solvent

Flammability: not measured
Upper/lower limit on flammability or explosive limits
Explosive limit - upper: not measured
Explosive limit - lower: not measured
Flash Point: Approximate

Approximate 25 °F/-4 °C

Method: DIN 53213

Auto-ignition temperature: not measured

Decomposition Temperature: not measured

**pH:** Not applicable, substance/mixture is non-soluble (in water)

**Viscosity** 

**Dynamic viscosity:** Approximate

2,000 mPa.s at 68 °F/20 °C

Method: DIN 53015

Kinematic viscosity: Approximate

1923 mm2/s at 68 °F/20 °C,

Method: calculated

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Flow Time: No data available.

Solubility(ies)

Solubility in Water:

Solubility (other):

Partition coefficient (n-octanol/water):

Vapor pressure:

Relative density:

Insoluble

not measured

not measured

not measured

**Density:** Approximate

1.04 g/cm3 at 68 °F/20 °C

Bulk density: No data available.

Relative vapor density: not measured

Other information

Explosive properties:not measuredOxidizing properties:not oxidizingSelf-ignition:not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

# 10. Stability and reactivity

**Reactivity:** 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:** Open flames, sparks or input of much heat

**Incompatible Materials:** Not known.

**Hazardous Decomposition** 

**Products:** 

None with proper storage and handling.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** Information on effects are given below.

**Skin Contact:** Information on effects are given below.

**Eye contact:** Information on effects are given below.

**Ingestion:** Information on effects are given below.

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50, ATEmix, 4,902 mg/kg

**Dermal** 



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**Product:** Not classified for acute toxicity based on available data.

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Respiratory or Skin Sensitization

**Product:** 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

#### **ACGIH: US.ACGIH Threshold Limit Values:**

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 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

No data available.

In vitro

**Product:** No data available.

Components:

Ethyl acetate Ames test, OECD 471: , negative

In vivo

**Product:** No data available.

Components:

Ethyl acetate Micronucleus test, OECD 474, Hamster, negative

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



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#### Information on health hazards

Other hazards

**Product:** No data available.

# 12. Ecological information

**Ecotoxicity:** 

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** 

Toxicity to microorganisms

**Product:** No data available.

**Chronic hazards to the aquatic environment:** 

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Toxicity to microorganisms

**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:** , not measured

Mobility in soil:

**Product:** No data available.

Results of PBT and vPvB assessment:



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**Product:** No data available.

Other adverse effects:

Other hazards

**Product:** 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** 

UN/ID/NA number : UN 1866
Proper shipping name : Resin solution

Class : 3
Packing group : II
Labels : 3
ERG Code : 127
Marine pollutant : no

#### **International Regulations**

**IATA-DGR** 

UN/ID No. : UN 1866
Proper shipping name : Resin solution

Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

**IMDG-Code** 

UN number or ID number : UN 1866

Proper shipping name : RESIN SOLUTION

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Remarks : Stowage category B

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation



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classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 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 (on the basis of current knowledge of the product composition).

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

<u>Chemical Identity</u> FORMALDEHYDE

OSHA hazard(s)
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**

ACETIC ACID, ETHYL ESTER ZINC COMPOUNDS ETHANONE, 1-PHENYL-

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

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

#### **Chemical Identity**

Formaldehyde;

Formaldehyde (solution)

#### US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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



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None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### **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

For more information go to www.P65Warnings.ca.gov.

#### **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**

Health	2
Flammability	3
Physical Hazards	0
PERSONAL PROTECTION	Х

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

Version #: 1.1

Generation date: 07/28/2025

Date of first report version: 03/13/2019

#### Abbreviations and acronyms:

ACGIH: US. ACGIH Threshold Limit Values, as amended

NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards, as amended

OSHA TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000),

as amended

ACGIH / TWA: Time Weighted Average (TWA): NIOSH/GUIDE / REL: Recommended exposure limit (REL):

OSHA TRANS / PEL: Permissible exposure limit:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -



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International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population: LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: none

**Revision Information** Significant changes since the last version are highlighted in the margin. This

version replaces all previous versions.

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