

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** TEGO® Variplus AP

**Chemical name:** Ketone-aldehyde condensation resin

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-cs@evonik.com

### Emergency telephone number:

24-Hour Health : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

## 2. Hazard(s) identification

### Classification according to GHS

Not classified

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** Not applicable

**Other hazards:** None known.

### 3. Composition/information on ingredients

**Chemical name:**

Ketone-aldehyde condensation resin

**Substances**

**General information:** No hazardous ingredients.

### 4. First-aid measures

**Description of necessary first-aid measures**

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care. After contact with molten product cool quickly with cold water Do not peel solidified product off the skin.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
<b>Ingestion:</b>	drink large quantities of water, do not induce vomiting; consult a physician - show this data sheet.
<b>Personal Protection for First-aid Responders:</b>	No data available.

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

<b>Symptoms:</b>	Up to now no symptoms are known.
<b>Hazards:</b>	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:** 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 Under certain conditions of combustion traces of other toxic substances cannot be excluded

**Special protective equipment and precautions for fire-fighters**
**Special fire-fighting procedures:**

Keep away from sources of ignition. Take action to prevent static discharges. Dust may form explosive mixture 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.

<b>6. Accidental release measures</b>	
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**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid dust formation.

**Accidental release measures:**

No data available.

**Methods and material for containment and cleaning up:**

Use mechanical handling equipment. 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.

<b>7. Handling and storage</b>	
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**Handling**
**Technical measures (e.g. Local and general ventilation):**

No data available.

**Safe handling advice:**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid the formation and deposition of dust. Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes.

**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.

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

Observe national threshold limit values.

**Biological Limit Values**

Observe national threshold limit values.

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**
**General information:**

No data available.

**Eye/face protection:**

Safety glasses

**Skin Protection**
**Hand Protection:**

Additional Information: gloves made of nitril (NBR)

**Other:**

protective clothing

**Respiratory Protection:**

in case of formation of vapours/dusts: Short term: filter apparatus, Filter P3

**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:**

solid

**Form:**

Pellets

**Color:**

Colorless

**Odor:**

Slight

**Odor Threshold:**

not measured

**Melting Point:**

190 - 216 °F/88 - 102 °C (DIN/ISO 4625)

**Boiling Point:**

not measured

**Flammability:**

not measured

**Upper/lower limit on flammability or explosive limits**
**Explosive limit - upper:**

not measured

**Explosive limit - lower:**

not measured

**Flash Point:**

not measured

**Self Ignition Temperature:**

not measured

**Decomposition Temperature:**

not measured

**pH:**

5 - 8 (25 °C)

**Viscosity**
**Dynamic viscosity:**

not measured

**Kinematic viscosity:**

not measured

**Flow Time:**

No data available.

**Solubility(ies)**

<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Vapor pressure:</b>	not measured
<b>Relative density:</b>	not measured
<b>Density:</b>	Approximate 1,19 g/cm <sup>3</sup> (68 °F/20 °C)
<b>Bulk density:</b>	No data available.
<b>Vapor density (air=1):</b>	not measured

#### Other information

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	> 842 °F/> 450 °C (DIN 51794)
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Evaporation Rate:</b>	not measured

### 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<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>	None with proper storage and handling.
<b>Incompatible Materials:</b>	Not known.
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

### 11. Toxicological information

#### Information on toxicological effects

##### Information on likely routes of exposure

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	Information on effects are given below.

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

<b>Oral Product:</b>	No data available.
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**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 Irritation****Product:** No data available.**Respiratory or Skin Sensitization****Product:** No data available.**Carcinogenicity****Product:** No data available.**Germ Cell Mutagenicity**

No data available.

**In vitro****Product:** Bacterial reverse mutation assay: 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**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: No data available.

##### 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 Aquatic Plants

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: Log Kow: not measured

### Mobility in soil:

Product: No data available.

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**

**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**

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

**Issue Date:** 05.04.2019

**Version #:** 1.1

**Further Information:** No data available.

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

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