

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TEGO VARIPLUS CA N

Chemical name:

Ketone-aldehyde condensation 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
299 Jefferson Road
Parsippany, NJ 07054
USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

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

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

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

3. Composition/information on ingredients

Chemical name:
Ketone-aldehyde condensation resin

Substances

Composition information of impurities and stabilizers

| Chemical Identity | Common name and synonyms | CAS number | Content in percent (%) [*] |
|--|--------------------------|------------|-------------------------------------|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | | 128-37-0 | 0.1 - <0.25% |

^{*} 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: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: 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.

Eye contact: In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.

Ingestion: Rinse out mouth and give plenty of water to drink. Do not induce vomiting. In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: No data available.

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: High volume water jet.

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

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Dust may form explosive mixture with air. Avoid dust formation. Take action to prevent static discharges. Keep away from sources of ignition.

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. Avoid dust formation.

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.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Avoid contact with skin and eyes. Do not inhale dust/fumes/aerosols.No special measures necessary if stored and handled as prescribed. Avoid the formation and deposition of dust.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed and dry. Keep at temperature not exceeding + 30 °C.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|--|------|-----------------------|--|
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- - Inhalable fraction and vapor. | TWA | 2 mg/m3 | US. ACGIH Threshold Limit Values, as amended (03 2016) |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | REL | 10 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010) |

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.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

Skin Protection

Hand Protection: No data available.

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/dusts: Short term: filter apparatus, Filter P1

Hygiene measures: Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

| | |
|--|--------------------------|
| Physical state: | solid |
| Form: | Powder. Granules |
| Color: | White |
| Odor: | Characteristic |
| Odor Threshold: | not measured |
| Melting Point: | 167 - 248 °F/75 - 120 °C |
| 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 applicable |
| pH: | Not applicable substance/mixture is non-soluble (in water) |
| Viscosity | |
| Dynamic viscosity: | not measured |
| Kinematic viscosity: | not measured |
| Flow Time: | Not applicable |
| Solubility(ies) | |
| Solubility in Water: | Insoluble |
| Solubility (other): | not measured |
| Partition coefficient (n-octanol/water): | not measured |
| Vapor pressure: | not measured |
| Relative density: | not measured |
| Density: | 1.1 - 1.2 g/cm ³ (68 °F/20 °C) |
| Bulk density: | Not applicable |
| Vapor density (air=1): | not measured |
| Particle characteristics | |
| Particle Size: | Not applicable |
| Particle Size Distribution: | Not applicable |
| Specific surface area: | Not applicable |
| Surface charge/Zeta potential: | Not applicable |
| Assessment: | Not applicable |
| Shape: | Not applicable |
| Crystallinity: | Not applicable |
| Surface treatment: | Not applicable |
| Other information | |
| Explosive properties: | not measured |
| Oxidizing properties: | not oxidizing |
| Minimum ignition temperature: | 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: | Dust may form explosive mixture with air. |
| Conditions to avoid: | Keep away from heat. |
| Incompatible Materials: | Oxidizing agent |
| 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.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Based on available data, the classification criteria are not met.
Not classified for acute toxicity based on available data.

Dermal

Product: Based on available data, the classification criteria are not met.
Not classified for acute toxicity based on available data.

Inhalation

Product: Based on available data, the classification criteria are not met.
Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Not irritating Not irritating;

Serious Eye Damage/Eye Irritation

Product: Not irritating Not irritating

Respiratory or Skin Sensitization

Product: Non sensitising

Carcinogenicity

Product: No evidence that cancer may be caused.

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 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Product name: TEGO VARIPLUS CA N

In vivo**Product:** No data available.**Reproductive toxicity****Product:** no evidence for hazardous properties**Specific Target Organ Toxicity - Single Exposure****Product:** no evidence for hazardous properties**Specific Target Organ Toxicity - Repeated Exposure****Product:** no evidence for hazardous properties**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.**Components:**

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 0.4 mg/l (Directive 67/548/EEC, Annex V, C.3.)

Toxicity to microorganisms**Product:** No data available.**Components:**

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- EC 50 (activated sludge, 3 h): > 10,000 mg/l (OECD 209)

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 name: TEGO VARIPLUS CA N

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.**Results of PBT and vPvB assessment:****Product** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.**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**

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), as amended

Chemical Identity

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

cyclohexanone
Formaldehyde

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

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

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

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

Chemical Identity

Formaldehyde

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

Chemical Identity

Formaldehyde

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.

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

Chemical Identity

Formaldehyde

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

| | |
|----------------------------|----------|
| Health | 0 |
| Flammability | 0 |
| Physical Hazards | 0 |
| PERSONAL PROTECTION | B |

B - Safety Glasses & Gloves

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

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Version #: 1.2

Further Information: noneCTFA: complies

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

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