

# SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations  
(SOR/2015-17)

## 1. Identification

**Product identifier:**  
ZETASPERSE® 3600

**Chemical name:**  
Polyvinyl copolymer

### Recommended use of the chemical and restrictions on use

**Recommended use:** Industrial Use  
**Recommended restrictions:** Not determined.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Canada Inc.  
3380 South Service Road  
L7N 3J5 Burlington ON  
Canada

Telephone : +1 905 336 3423

Fax : +1 905 332 5632

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)  
+1 613 996 6666 (CANUTEC – For Transportation Emergencies Only)  
+1 973 929 8060 (Product Regulatory Services)

## 2. Hazard(s) identification

### Hazard Classification According to Hazardous Product Regulations

#### Health Hazards

Skin sensitizer

Sub-category 1B

### Label Elements

#### Hazard Symbol:



<b>Signal Word:</b>	Warning
<b>Hazard Statement:</b>	May cause an allergic skin reaction.
<b>Precautionary Statements</b>	
<b>Prevention:</b>	Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
<b>Response:</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>Disposal:</b>	Dispose of contents/ container to an approved waste disposal plant.

**Physical Hazards Not Otherwise Classified:** None.

**Health Hazards Not Otherwise Classified:** None.

### 3. Composition/information on ingredients

**Chemical name:**  
 Polyvinyl copolymer

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Alcohols, C11-15-secondary, ethoxylated		68131-40-8	>=10 - <30%
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	Acetylenic Diol	126-86-3	>=5 - <10%
Ethanol, 2-butoxy-		111-76-2	>=0.1 - <1%

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

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>General information:</b>	Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water. Gently wash with plenty of soap and water.
<b>Eye contact:</b>	Rinse immediately with plenty of water for at least 15 minutes. Immediately flush eye(s) with plenty of water.
<b>Ingestion:</b>	Prevent aspiration of vomit. Turn victim's head to the side. Never give anything by mouth to an unconscious person.
<b>Personal Protection for First-aid Responders:</b>	Use personal protective equipment., Wear self-contained breathing apparatus for firefighting if necessary.

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

**Symptoms:** Up to now no symptoms are known.

**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:** Alcohol resistant foam.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** Incomplete combustion may form carbon monoxide. No special precautions. Burning produces noxious and toxic fumes.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye/face protection.

**Accidental release measures:** If possible, stop flow of product.

**Methods and material for containment and cleaning up:** Place in appropriate chemical waste container. Call Emergency Response number for advice.

**Environmental Precautions:** Construct a dike to prevent spreading.

**7. Handling and storage****Handling**

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

**Safe handling advice:** Use personal protective equipment. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Avoid contact with eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations.

**Contact avoidance measures:** No data available.

**Hygiene measures:** Provide readily accessible eye wash stations and safety showers.

**Storage**

**Safe storage conditions:** Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and 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**

Chemical Identity	Type	Exposure Limit Values		Source
Ethanol, 2-butoxy-	TWA	20 ppm	97 mg/m <sup>3</sup>	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Ethanol, 2-butoxy-	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Ethanol, 2-butoxy-		20 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2016)
Ethanol, 2-butoxy-	TWA	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Ethanol, 2-butoxy-	8 HR ACL	20 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	30 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Ethanol, 2-butoxy-	TWA	20 ppm	97 mg/m <sup>3</sup>	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values (03 2016)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source

**Appropriate Engineering Controls** No data available.

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

**Eye/face protection:** Chemical safety glasses.

**Skin Protection**

**Hand Protection:** Additional Information: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Additional Information: Neoprene gloves, Nitrile rubber.

**Other:** No specific recommendations. Long sleeve shirts and trousers without cuffs.

**Respiratory Protection:** Not required for properly ventilated areas. Wear appropriate respirator when ventilation is inadequate.

**Hygiene measures:** Provide readily accessible eye wash stations and safety showers.

<b>9. Physical and chemical properties</b>
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**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	ammoniacal
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	104 °C
<b>Flash Point:</b>	> 93.4 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.

<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	24.79 hPa
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	1.04
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Self Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Dynamic viscosity:</b>	No data available.
<b>Other information</b>	
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.
<b>Minimum ignition temperature:</b>	No data available.
<b>Metal Corrosion:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions"
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Dehydrating Agents. Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide. Carbon Dioxide. Aldehydes. Flammable hydrocarbon fragments. Heating above 65 °C in the presence of strong base can liberate flammable hydrocarbon fragments. Carbon oxides

## 11. Toxicological information

**Information on likely routes of exposure**

<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.

**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)****Oral**

**Product:** Acute toxicity estimate : > 5,000 mg/kg

**Dermal**

**Product:** Acute toxicity estimate : > 5,000 mg/kg

**Inhalation**

**Product:** No data is available on the product itself.No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Serious Eye Damage/Eye Irritation**

**Product:** Not irritating  
Not irritating Non-irritant in an in vitro test.

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol The results of a Local Lymph Node Assay(LLNA) showed this substance to be a weak skin sensitizer

Component of this product has been found to cause mild skin sensitization in a Local Lymph Node Assay (LLNA).  
Based on test(s) done on similar products, this material is not expected to cause skin sensitization. May cause sensitization by skin contact.

Ethanol, 2-butoxy- (Guinea Pig)Not a skin sensitizer.  
Not a respiratory sensitizer

**Carcinogenicity**

**Product:** No data available.

### Germ Cell Mutagenicity

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

### Reproductive toxicity

**Product:** No data is available on the product itself.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

### Aspiration Hazard

**Product:** No data available.

**Other effects:** No data available.

## 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: No data available.**Mobility in soil:** No data available.**Known or predicted distribution to environmental compartments**

Alcohols, C11-15- No data available.

secondary, ethoxylated  
2,4,7,9-Tetramethyldec-5-

yne-4,7-diol No data available.

Ethanol, 2-butoxy- No data available.

**Other adverse effects:**

Do not allow to enter soil, waterways or waste water canal. The product is classified as extremely hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV)).

**13. Disposal considerations****Disposal methods:** Contact supplier if guidance is required.**Contaminated Packaging:** Dispose of container and unused contents in accordance with federal, state, and local requirements.**14. Transport information****Domestic regulation****TDG**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

**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**



**Canada Federal Regulations  
List of Toxic Substances (CEPA, Schedule 1)****Chemical Identity**

Ethanol, 2-butoxy-

**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)****Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**NPRI PT5 Ethanol, 2-butoxy-2-  
Pentanone, 4-methyl-**Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**

NPRI Not Regulated

**Greenhouse Gases**

Not Regulated

**Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

**Precursor Control Regulations**

Not Regulated

**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****Issue Date:** 03/15/2019**Revision Date:** No data available.**Version #:** 1.0**Further Information:** No data available.

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