

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** ZETASPERSE® 1600  
**Chemical name:**  
Blend of polymers, acetylene diol and ethoxylated alcohol

**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  
PO Box 34628  
Richmond, VA 23234  
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 4

#### Health Hazards

Serious Eye Damage/Eye Irritation Category 1

Skin sensitizer Category 1

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:**  
 Combustible liquid.  
 Causes serious eye damage.  
 May cause an allergic skin reaction.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand to extinguish.

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

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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

**3. Composition/information on ingredients**

**Chemical name:**  
 Blend of polymers, acetylene diol and ethoxylated alcohol

**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
2,4,7,9-Tetramethyldec-5-yne-4,7-diol		126-86-3	<15%
Alcohols, C11-15-secondary, ethoxylated		68131-40-8	<25%
propane-1,2-diol		57-55-6	10 - 20%

<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.

**4. First-aid measures**

## Description of necessary first-aid measures

<b>General information:</b>	Immediately remove contaminated clothing.
<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.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
<b>Ingestion:</b>	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	Do not inhale explosion and/or combustion gases, Use self-contained breathing apparatus and wear protective suit

## Most important symptoms/effects, acute and delayed

**Symptoms:** Risk of serious damage to eyes.

**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 Under certain conditions of combustion traces of other toxic substances cannot be excluded

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No specific precautions.

**Special protective equipment for fire-fighters:** Do not inhale explosion and/or combustion gases Use self-contained breathing apparatus and wear protective suit

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment.

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

Pick up with absorbent material (e.g. sand, sawdust, general-purpose 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:**

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

**Contact avoidance measures:**

No data available.

**Hygiene measures:**

Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately. Use barrier skin cream.

### Storage

**Safe storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Protect from frost. Do not store with acids or alkalies Do not store together with oxidizing agents.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
propane-1,2-diol	AN ESL	18 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	1,800 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
propane-1,2-diol - Aerosol.	TWA	10 mg/m <sup>3</sup>	US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (02 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.

**Appropriate Engineering Controls** No data available.

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

**Eye/face protection:** Tightly fitting safety goggles

#### Skin Protection

**Hand Protection:** Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)

**Skin and Body Protection:** protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	4 (100 g/l, 20 °C) in Water
<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	98 °C
<b>Flash Point:</b>	> 77 °C
<b>Evaporation Rate:</b>	not measured
<b>Flammability (solid, gas):</b>	not measured
<b>Explosive limit - upper:</b>	not measured
<b>Explosive limit - lower:</b>	not measured
<b>Vapor pressure:</b>	23.97 hPa (21 °C)
<b>Relative vapor density:</b>	not measured
<b>Density:</b>	1.045 g/cm <sup>3</sup> (20 °C)
<b>Relative density:</b>	not measured
<b>Solubility in Water:</b>	miscible
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured
<b>Kinematic viscosity:</b>	not measured
<b>Dynamic viscosity:</b>	not measured

### Other information

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Does not corrode metal.

## 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>	Direct sunlight Freezing.
<b>Incompatible Materials:</b>	Oxidizing agents. acids alkalines
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

## 11. Toxicological information

### 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.

### 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

<b>Product:</b>	No data available. Not classified for acute toxicity based on available data.
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##### Dermal

<b>Product:</b>	No data available.
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##### Inhalation

<b>Product:</b>	No data available. Not classified for acute toxicity based on available data.
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#### Repeated dose toxicity

<b>Product:</b>	No data available.
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#### Skin Corrosion/Irritation

<b>Product:</b>	No data available.
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**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

**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.**Components:**2,4,7,9-Tetramethyldec-  
5-yne-4,7-diol  
Ames test (OECD 471): negative Own study  
Chromosomal aberration (OECD 473): negative Own study  
gene mutation test (OECD 476): negative Own study**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**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.**Toxicity to Aquatic Plants****Product:** No data available.**Components:**

**Product name: ZETASPERSE® 1600**

2,4,7,9-Tetramethyldec-5-yne-4,7-diol propane-1,2-diol	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD 201) ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 82 mg/l (OECD 201) EC 50 (Scenedesmus capricornutum (fresh water algae), 72 h): 24,200 mg/l literature EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): 19,000 mg/l (OECD 201) EC 50 (Skeletonema costatum (marine diatom), 96 h): 19,100 mg/l (OECD 201)
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**Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	EC 50 (activated sludge, 3 h): 630 mg/l

**Chronic hazards to the aquatic environment:**
**Fish**

<b>Product:</b>	No data available.
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**Aquatic Invertebrates**

<b>Product:</b>	No data available.
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**Toxicity to Aquatic Plants**

<b>Product:</b>	No data available.
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**Toxicity to microorganisms**

<b>Product:</b>	No data available.
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**Persistence and Degradability**
**Biodegradation**

<b>Product:</b>	No data available.
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**BOD/COD Ratio**

<b>Product:</b>	No data available.
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**Bioaccumulative potential**

<b>Product:</b>	No data available.
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**Partition Coefficient n-octanol / water (log Kow)**

<b>Product:</b>	Log Kow: not measured
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**Mobility in soil:**

<b>Product</b>	No data available.
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**Other adverse effects:**

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

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

### 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

Alcohols, C11-15-  
secondary, ethoxylated  
2-Pentanone, 4-methyl-

##### OSHA hazard(s)

None present or none present in regulated quantities.

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

##### Chemical Identity

2-Pentanone, 4-methyl-

##### Chemical Identity

2-Pentanone, 4-methyl-

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

##### Hazard categories

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Respiratory or Skin Sensitization

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

None present or none present in regulated quantities.

Product name: ZETASPERSE® 1600

**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):**

None present or none present in regulated quantities.

**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**

No ingredient requiring a warning under CA Prop 65.


**WARNING:** This product can expose you to chemicals including, 2-Pentanone, 4-methyl-, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

**US. New Jersey Worker and Community Right-to-Know Act**
Chemical Identity

propane-1,2-diol

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**
Chemical Identity

propane-1,2-diol

**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: Not on Inventory.

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

<b>Health</b>	2*
<b>Flammability</b>	1
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	

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

**Issue Date:** 01/27/2021

**Version #:** 1.2

**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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