

Product name: ZETASPERSE® 3700

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:
ZETASPERSE® 3700

Chemical name:
Blend of polyvinyl copolymer and ethoxylated alcohol

UFI: HW37-F0S0-R007-U4YD

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232
Emergency : +49 2365 49 4423 (Fax)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

Product name: ZETASPERSE® 3700
2.3 Other hazards

None known.

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients
Chemical name:

Blend of polyvinyl copolymer and ethoxylated alcohol

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Alcohols, C9-11-branched and linear, ethoxylated	10 - <20%	160901-09-7		-	No data available.	

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

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Alcohols, C9-11-branched and linear, ethoxylated	Classification: Acute Tox.: 4: H302; Eye Dam.: 1: H318; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: 500 mg/kg Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures
4.1 Description of necessary first-aid measures

Product name: ZETASPERSE® 3700

General information:	Immediately remove contaminated clothing.
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.
Eye contact:	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.
Hazards:	No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 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

5.3 Advice 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

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|--|--|
| 6.2 Environmental Precautions: | Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil. |
| 6.3 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. |
| 6.4 Reference to other sections: | For further information on exposure monitoring and disposal see sections 8 and 13. |

SECTION 7: Handling and storage:

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:

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

Safe packaging materials:

No data available.

7.3 Specific end use(s):

No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

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

DNEL-Values

Remarks: No DNEL/DMEL values on file.

PNEC-Values

Remarks: No PNEC values on file.

8.2 Exposure controls

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Safety glasses

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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
Hygiene measures:	Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.
Environmental Controls:	The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance

Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	ammoniacal
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	100 °C
Flammability:	not measured
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 100 °C
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	9 (25 °C)
Viscosity	
Dynamic viscosity:	400 mPa.s (21 °C)
Kinematic viscosity:	377 mm ² /s (21 °C, calculated)
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	not measured
Solubility (other):	not measured
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	not measured
Dispersion Stability:	No data available.
Vapor pressure:	25 hPa (21 °C)
Relative density:	not measured
Density:	1,06 g/cm ³ (25 °C)
Bulk density:	No data available.
Relative vapor density:	not measured

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9.2 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

SECTION 10: Stability and reactivity

10.1 Reactivity:	see section "Possibility of hazardous reactions".
10.2 Chemical Stability:	The product is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
10.4 Conditions to avoid:	Freezing.
10.5 Incompatible Materials:	Oxidizing agents. Acids. Alkalies.
10.6 Hazardous Decomposition Products:	None with proper storage and handling.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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): 3.487 mg/kg
Components:	LD 50 (Acute toxicity estimate) : 500 mg/kg CESIO
Alcohols, C9-11- branched and linear, ethoxylated	

Dermal

Product:	No data available.
Components:	No data available.
Alcohols, C9-11- branched and linear, ethoxylated	

Inhalation

Product:	No data available.
Components:	

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Alcohols, C9-11- branched and linear, ethoxylated	Vapour, No data available. Dusts, mists and fumes, No data available.
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Repeated dose toxicity

Product:	No data available.
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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Skin Corrosion/Irritation

Product:	Not irritating Not irritating;
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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Serious Eye Damage/Eye Irritation

Product:	Not irritating (Bovine cornea): Not irritating;
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Components: Alcohols, C9-11- branched and linear, ethoxylated	Risk of serious damage to eyes. , CESIO
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Respiratory or Skin Sensitization

Product:	No data available.
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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Carcinogenicity

Product:	No data available.
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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Germ Cell Mutagenicity

No data available.

In vitro

Product:	No data available.
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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In vivo

Product:	No data available.
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Components: Alcohols, C9-11- branched and linear, ethoxylated	No data available.
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Reproductive toxicity

Product:	No data available.
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Components:	
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Alcohols, C9-11-
 branched and linear,
 ethoxylated

No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Alcohols, C9-11-
 branched and linear,
 ethoxylated

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Alcohols, C9-11-
 branched and linear,
 ethoxylated

No data available.

Aspiration Hazard

Product: Not classified

Components:

Alcohols, C9-11-
 branched and linear,
 ethoxylated

Not classified

11.2 Information on other hazards
Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:

Alcohols, C9-11-
 branched and linear,
 ethoxylated

No data available.

Other hazards

Product: The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".;

SECTION 12: Ecological information

12.1 Toxicity:
Acute hazards to the aquatic environment:
Fish

Product: No data available.

Components:

Alcohols, C9-11-
 branched and linear,
 ethoxylated

No data available.

Aquatic Invertebrates

Product name: ZETASPERSE® 3700

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Toxicity to microorganisms

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Aquatic Invertebrates

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

Toxicity to microorganisms

Product: No data available.

Components:
Alcohols, C9-11-
branched and linear,
ethoxylated No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components:
Alcohols, C9-11-branched
and linear, ethoxylated No data available.

BOD/COD Ratio

Product: No data available.

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Components:

Alcohols, C9-11-branched and linear, ethoxylated No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Alcohols, C9-11-branched and linear, ethoxylated No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Components:

Alcohols, C9-11-branched and linear, ethoxylated No data available.

12.4 Mobility in soil:

Product No data available.

Components:

Alcohols, C9-11-branched and linear, ethoxylated No data available.

12.5 Results of PBT and vPvB assessment:

Product No data available.

Components:

Alcohols, C9-11-branched and linear, ethoxylated Non-classified vPvB substance
Non-classified PBT substance

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Alcohols, C9-11-branched and linear, ethoxylated No data available.

12.7 Other adverse effects:

Other hazards

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Product name: ZETASPERSE® 3700

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.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International

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Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H318	Causes serious eye damage.

Training information: Comply with national laws regulating employee instruction.

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

Disclaimer: This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.