

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : VP 585

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Substance/Mixture : In-door use  
Disinfectants and general biocidal products, For further information,  
refer to the product technical data sheet.

Recommended restrictions on use : Restricted to professional users.

**1.3 Details of the supplier of the safety data sheet**Manufacturer, importer, supplier : BODE Chemie GmbH  
Melanchthonstraße 27  
22525 Hamburg  
Tel.: +49 (0)40 / 54 00 60Responsible Department : Scientific Affairs  
KundenService-SiDa@bode-chemie.de**1.4 Emergency telephone number**Emergency telephone number : Giftnotruf Göttingen  
24h-Phone +49 (0)551 / 1 92 40

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**Flammable  
IrritantR10: Flammable.  
R36: Irritating to eyes.  
R67: Vapours may cause drowsiness and dizziness.**2.2 Label elements****Labelling according to EC Directives: 1999/45/EC**

Hazard symbols :



Irritant

R-phrases(s) : R10 Flammable.  
R36 Irritating to eyes.  
R67 Vapours may cause drowsiness and dizziness.S-phrases(s) : S23 Do not breathe vapours, aerosols.  
S26 In case of contact with eyes, rinse immediately

S35 with plenty of water and seek medical advice.  
This material and its container must be disposed  
of in a safe way.

S51 Use only in well-ventilated areas.

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. REACH Registra- tion Number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ethanol	64-17-5 200-578-6 01-2119457610- 43	F; R11	Flam. Liq. 2; H225	>= 5 - < 30
Propan-2-ol	67-63-0 200-661-7 01-2119457558- 25	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 5 - < 30
Propan-1-ol	71-23-8 200-746-9 01-2119486761- 29	F; R11 Xi; R41 R67	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	>= 5 - < 30
Amines, N-C10-16- alkyltrimethylenedi-, reac- tion products with chloro- acetic acid	139734-65-9	C-N; R22-R34- R50	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 0,1 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possi-

ble).

- If inhaled : Remove to fresh air.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : none

#### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : no data available

#### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment.
- Further information : Standard procedure for chemical fires.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.2 Environmental precautions

- Environmental precautions : Should not be released into the environment.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container. Keep tightly closed.

Advice on common storage : Keep away from food and drink.

#### 7.3 Specific end use(s)

no data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

##### DNEL

Ethanol (CAS: 64-17-5) : End Use: Consumers  
Exposure routes: Ingestion  
Value: 87 mg/kg

Propan-2-ol (CAS: 67-63-0) : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Chronic effects  
Value: 888 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Chronic effects  
Value: 500 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact

	Potential health effects: Chronic effects Value: 319 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Chronic effects Value: 89 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Chronic effects Value: 26 mg/kg
Propan-1-ol (CAS: 71-23-8)	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 136 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 268 mg/m <sup>3</sup>
	End Use: Workers Exposure routes: Inhalation Potential health effects: Short-term exposure Value: 1723 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 81 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 80 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Short-term exposure Value: 1036 mg/m <sup>3</sup>
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 61 mg/kg
PNEC Ethanol (CAS: 64-17-5)	: Fresh water Value: 0,96 mg/l
	Fresh water sediment Value: 3,6 mg/kg
	Marine water Value: 0,76 mg/l
	Soil

	Value: 0,63 mg/kg
Propan-2-ol (CAS: 67-63-0)	: Fresh water Value: 140,9 mg/l
	Marine water Value: 140,9 mg/l
	Fresh water sediment Value: 552 mg/kg
	Marine sediment Value: 552 mg/kg
	Soil Value: 28 mg/kg
Propan-1-ol (CAS: 71-23-8)	: Fresh water Value: 10 mg/l
	Soil Value: 2,2 mg/kg
	Marine water Value: 1 mg/l
	Fresh water sediment Value: 22,8 mg/kg
	Marine sediment Value: 2,28 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Protective measures : No special protective equipment required.

### Environmental exposure controls

General advice : Should not be released into the environment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like

Odour Threshold	: no data available
pH	: no data available
Melting point/range	: not determined
Boiling point/boiling range	: not determined
Flash point	: 31 °C Method: ISO 3679
Evaporation rate	: no data available
Flammability (solid, gas)	: not auto-flammable
Burning rate	: no data available
Lower explosion limit	: 2 %(V)
Upper explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: 0,96 g/cm <sup>3</sup> at 20 °C
Water solubility	: completely miscible
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

## 9.2 Other information

Conductivity	: no data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : Heat.  
Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : None.

**10.6 Hazardous decomposition products**

no data available

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Product**

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation : Result: No skin irritation

Serious eye damage/eye irritation : Result: Eye irritation

Respiratory or skin sensitisation : Result: Does not cause skin sensitisation.

Result: Does not cause respiratory sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro : no data available

Genotoxicity in vivo : no data available

Carcinogenicity : This information is not available.

Reproductive toxicity : This information is not available.

Teratogenicity : This information is not available.

STOT - single exposure : Remarks: no data available

Repeated dose toxicity :



Note: This information is not available.

STOT - repeated exposure : Remarks: no data available

**Components:**

**Ethanol (CAS: 64-17-5) :**

Acute oral toxicity : LD50 Oral rat: 6.200 mg/kg

Acute inhalation toxicity : LC50 rat: 124,7 mg/l  
Exposure time: 4 h

Skin corrosion/irritation : Species: rabbit  
Exposure time: 24 h  
Result: Mild skin irritation  
Method: Draize Test

Serious eye damage/eye irritation : Species: rabbit  
Exposure time: 24 h  
Result: Mild eye irritation  
Method: Draize Test

**Propan-2-ol (CAS: 67-63-0) :**

Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg

Acute inhalation toxicity : LC50 rat: > 20 mg/l  
Exposure time: 8 h

Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg

Skin corrosion/irritation : Species: rabbit  
Result: No skin irritation

Serious eye damage/eye irritation : Species: rabbit  
Result: Eye irritation

Respiratory or skin sensitisation : Test Method: Buehler Test  
Species: guinea pig  
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
with and without metabolic activation  
Result: negative

**Propan-1-ol (CAS: 71-23-8) :**

Acute oral toxicity : LD50 Oral rat: 8.000 mg/kg

Acute inhalation toxicity : LC50 rat: > 33,8 mg/l

	Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 Dermal rabbit: 4.032 mg/kg Method: Calculation method
Skin corrosion/irritation	: Species: rabbit Result: No skin irritation
Serious eye damage/eye irritation	: Species: rabbit Result: Irreversible effects on the eye
Respiratory or skin sensitisation	: Test Method: Maximisation Test Species: guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406
Germ cell mutagenicity	
Genotoxicity in vitro	: Type: in vitro assay Result: negative
<b>Amines, N-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9) :</b>	
Acute oral toxicity	: LD50 rat: > 300 mg/kg
Skin corrosion/irritation	: Result: Corrosive after 1 to 4 hours of exposure

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available
Toxicity to bacteria	: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: no data available

#### Components:

##### **Ethanol (CAS 64-17-5) :**

Toxicity to fish	: LC50 (Fish): 13.000 mg/l Exposure time: 96 h
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- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 12.340 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 5.000 mg/l  
Exposure time: 72 h
- Propan-2-ol (CAS 67-63-0) :**
- Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): > 100 mg/l  
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 100 mg/l  
Exposure time: 72 h
- Propan-1-ol (CAS 71-23-8) :**
- Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 4.555 mg/l  
Exposure time: 96 h  
Test Method: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.644 mg/l  
Exposure time: 48 h  
Method: DIN 38412
- Toxicity to algae : NOEC (*Chlorella vulgaris* (Fresh water algae)): 1.150 mg/l  
Exposure time: 48 h
- Toxicity to bacteria : IC50 (Bacteria): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209
- Amines, N-C10-16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS 139734-65-9) :**
- Toxicity to fish : LC50 (Fish): 0,43 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,11 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EbC50 (*Desmodesmus subspicatus* (green algae)): 0,05 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- M-Factor : 10

**12.2 Persistence and degradability****Product:**

- Biodegradability : Expected to be ultimately biodegradable

**12.3 Bioaccumulative potential****Product:**

- Bioaccumulation : no data available

**12.4 Mobility in soil****Product:**

Distribution among environmental compartments : no data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : no data available

**12.6 Other adverse effects****Product:**

Adsorbed organic bound halogens (AOX) : no data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
The following Waste Codes are only suggestions:

Waste Code EU : 070601\* aqueous washing liquids and mother liquors

Contaminated packaging : Empty remaining contents.  
Store containers and offer for recycling of material when in accordance with the local regulations.

**SECTION 14: Transport information****14.1 UN number**

ADR : UN 1987  
IMDG : UN 1987  
IATA : UN 1987

**14.2 UN proper shipping name**

ADR : ALCOHOLS, N.O.S. (ethanol, isopropanol)  
IMDG : ALCOHOLS, N.O.S. (ethanol, isopropanol)  
IATA : ALCOHOLS, N.O.S. (ethanol, isopropanol)

**14.3 Transport hazard class**

ADR : 3  
IMDG : 3  
IATA : 3

**14.4 Packaging group**

ADR :  
Packaging group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E  
IMDG

Packaging group : III  
 Labels : 3  
 EmS Number : F-E, S-D

**IATA**

Packaging group : III  
 Labels : 3

**14.5 Environmental hazards****ADR**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**IATA**

Environmentally hazardous : no

**14.6 Special precautions for user**

not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Notification status**

CH INV : The formulation contains substances listed on the Swiss Inventory  
 TSCA : Not On TSCA Inventory  
 DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
 AICS : Not in compliance with the inventory  
 NZIoC : Not in compliance with the inventory  
 ENCS : Not in compliance with the inventory  
 ISHL : Not in compliance with the inventory  
 KECI : On the inventory, or in compliance with the inventory  
 PICCS : Not in compliance with the inventory  
 IECS : On the inventory, or in compliance with the inventory

For explanation of abbreviations see section 16.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

**SECTION 16: Other information**

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

**Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

**Full text of other abbreviations**Notification status

CH INV	: Switzerland. New notified substances and declared preparations
TSCA	: Toxic substances control act
DSL	: Canada. DSL - Domestic Substances List, part of CEPA
AICS	: Australia. AICS - Australian Inventory of Chemical Substances
NZIoC	: New Zealand Inventory of Chemical Substances
ENCS	: Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	: Japan. Industrial Safety and Health Law - Inventory
KECI	: Korea. KECI - Korean Existing Chemicals Inventory
PICCS	: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC	: China. IECSC - Inventory of Existing Chemical Substances in China

**Safety datasheet sections which have been updated:**

1. Identification of the substance/mixture and of the company/undertaking
6. Accidental release measures

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.