

# Safety Data Sheet

## according to Regulation (EC) No. 1907/2006 (REACH)

Trade name : B 60 Disinfection Wipes  
Revision date : 15.04.2020  
Print date : 18.02.2021

Version (Revision) : 5.0.0 (4.0.0)

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

#### 1.1 Product identifier

B 60 Disinfection Wipes

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

##### Relevant identified uses

B 60 disinfection wipes are suitable for wipe disinfecting and cleaning of surfaces of medical devices.

##### Products Category [PC]

PC 0 - Other

Disinfectants

##### Uses advised against

None, if handled according to order.

##### Remark

The product is intended for professional use.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

orochemie GmbH + Co. KG

**Street :** Max-Planck-Straße 27

**Postal code/city :** 70806 Kornwestheim

**Telephone :** +49 7154 1308-0

**Telefax :** +49 7154 1308-40

**Information contact :** info@orochemie.de - www.orochemie.de

#### 1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Sol. 1 ; H228 - Flammable solids : Category 1 ; Flammable solid.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

###### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

###### Signal word

Danger

###### Hazard components for labelling

1-PROPANOL ; CAS No. : 71-23-8

###### Hazard statements

H228 Flammable solid.

H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to hazardous or special waste collection point.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

B 60 contains alcohols, citral, limonene, fragrances and auxiliary agents in aqueous solution.

#### Hazardous ingredients

1-PROPANOL ; REACH No. : 01-2119486761-29 ; EC No. : 200-746-9; CAS No. : 71-23-8

Weight fraction :  $\geq 32\%$   
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 26\%$   
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

PROPAN-2-OL ; REACH No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $\geq 1 - < 3\%$   
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

CITRAL ; REACH No. : 01-2119462829-23 ; EC No. : 226-394-6; CAS No. : 5392-40-5

Weight fraction :  $< 0,05\%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

(R)-P-MENTHA-1,8-DIENE ; REACH No. : 01-2119529223-47 ; EC No. : 227-813-5; CAS No. : 5989-27-5

Weight fraction :  $< 0,05\%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

DIPENTENE ; REACH No. : 01-2119553060-53 ; EC No. : 205-341-0; CAS No. : 138-86-3

Weight fraction :  $< 0,02\%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

No special measures are necessary.

#### In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

#### After eye contact

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In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

No special measures are necessary. Never give anything by mouth to an unconscious person or a person with cramps.

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

Causes serious eye irritation.

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

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet Water mist

##### Unsuitable extinguishing media

Full water jet

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

None known.

##### Hazardous combustion products

None known.

#### 5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

##### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove all sources of ignition. When using do not smoke. See protective measures under point 7 and 8.

##### For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

##### For emergency responders

###### Personal protection equipment

See protective measures under point 7 and 8.

#### 6.2 Environmental precautions

No special environmental measures are necessary.

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

##### For cleaning up

No special measures are necessary.

##### Other information

Dispose of used cloths in the household waste - do not throw them down the toilet.

#### 6.4 Reference to other sections

None

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Please note safety instructions and directions for use on the drum.

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### Protective measures

#### Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

#### Hints on joint storage

Store the foodstuffs separately. Do not store together with oxidizing, self-igniting substances and highly flammable solid substances. Do not store together with highly flammable substances.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

1-PROPANOL ; CAS No. : 71-23-8

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 250 ppm / 625 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 200 ppm / 500 mg/m<sup>3</sup>

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 1000 ppm / 1920 mg/m<sup>3</sup>

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 500 ppm / 1250 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 400 ppm / 999 mg/m<sup>3</sup>

#### DNEL-/PNEC-values

There are no data available on the preparation itself.

#### DNEL/DMEL

1-PROPANOL ; CAS No. : 71-23-8

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 1036 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 81 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 80 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 61 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

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Limit value : 1723 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 136 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 268 mg/m<sup>3</sup>

ETHANOL ; CAS No. : 64-17-5  
Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 950 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 87 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 206 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 114 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1900 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 343 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 950 mg/m<sup>3</sup>

PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 319 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 89 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 26 mg/kg  
Safety factor : 24 h

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Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 888 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 500 mg/m<sup>3</sup>

CITRAL ; CAS No. : 5392-40-5

Limit value type : DNEL worker (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 140 µg/cm<sup>2</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 9 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1,7 mg/kg  
Safety factor : 24 h

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 66,7 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 9,5 mg/kg  
Safety factor : 24 h

### PNEC

1-PROPANOL ; CAS No. : 71-23-8

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 10 mg/l  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 6,83 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 1 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,683 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 2,2 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 22,8 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 27,5 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,28 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,75 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 1,49 mg/kg

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Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 96 mg/l

ETHANOL ; CAS No. : 64-17-5  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,96 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,79 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 0,63 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 3,6 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,9 mg/kg  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 729 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 580 mg/l

PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 28 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 160 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 2251 mg/l

CITRAL ; CAS No. : 5392-40-5  
Limit value type : PNEC (Aquatic, freshwater)  
Exposure time : Short-term  
Limit value : 0,007 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Exposure time : Short-term  
Limit value : 0,001 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Exposure time : Short-term  
Limit value : 0,125 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Exposure time : Short-term  
Limit value : 0,013 mg/kg  
Limit value type : PNEC (Soil)  
Exposure time : Short-term  
Limit value : 0,021 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure time : Short-term  
Limit value : 1,6 mg/l

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5  
Limit value type : PNEC (Aquatic, freshwater)

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Exposure time : Short-term  
Limit value : 14 µg/l  
Limit value type : PNEC (Aquatic, marine water)  
Exposure time : Short-term  
Limit value : 1,4 µg/l  
Limit value type : PNEC (Sediment, freshwater)  
Exposure time : Short-term  
Limit value : 3,85 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Exposure time : Short-term  
Limit value : 0,385 mg/kg  
Limit value type : PNEC (Soil)  
Exposure time : Short-term  
Limit value : 0,763 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure time : Short-term  
Limit value : 1,8 mg/l

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection DIN EN 166

##### Skin protection

###### Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. AUS/NZ: Wear impervious rubber gloves (AS2161).

###### Body protection

Body protection: not required.

##### Respiratory protection

No special measures are necessary.

#### General information

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

#### Other protection measures

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** wipes

**Colour :** white

**Odour :** Lemon

#### Safety characteristics

**Melting point/freezing point :** ( 1013 hPa ) not applicable

**Initial boiling point and boiling range :** ( 1013 hPa ) not applicable

**Decomposition temperature :** ( 1013 hPa ) not applicable

**Flash point :** Combustible

**Auto-ignition temperature :** not applicable

**Lower explosion limit :** not relevant



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Upper explosion limit :		not relevant	
Vapour pressure :	( 50 °C )	not applicable	
Density :	( 20 °C )	none	
Solvent separation test :	( 20 °C )	not applicable	
Water solubility :	( 20 °C )	not relevant	
pH value :		inapplicable	
log P O/W :		not applicable	
Flow time :	( 20 °C )	not applicable	DIN-cup 4 mm
Odour threshold :		No data available	
Maximum VOC content (EC) :		59,9	Wt %
Flammable solids :	Flammable solid.		
Oxidising solids :	Not applicable.		
Corrosive to metals :	Not corrosive to metals.		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None, if handled according to order.

### 10.2 Chemical stability

None known.

### 10.3 Possibility of hazardous reactions

None, if handled according to order.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Concentrate:

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mL/kg
Method :	OECD 423
Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant

#### Practical experience/human evidence

The product does not have any skin irritating or sensitizing properties.

#### Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

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Method : OECD 402  
Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : not relevant

### Acute inhalation toxicity

Parameter : LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 33,8 mg/l  
Exposure time : 4 h  
Method : OECD 403

Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 125 mg/l  
Exposure time : 4 h  
Method : OECD 403

Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 27,2 mg/l  
Exposure time : 4 h

Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 25 mg/l  
Exposure time : 6 h  
Method : OECD 403

Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 72,6 mg/l  
Exposure time : 4 h

Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : > 10000 ppm  
Exposure time : 6 h

Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 47,5 mg/l

### Corrosion

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met. not corrosive Method : OECD 431.

#### Serious eye damage/eye irritation

Causes serious eye irritation. Method : OECD 405.

### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. Guinea-pig: non-sensitizing. Method : OECD 406.

### Repeated dose toxicity (subacute, subchronic, chronic)

#### Subacute oral toxicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1730 mg/kg

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Exposure time : 24 h  
Method : OECD 408

### Subacute inhalation toxicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 20 mg/l

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

### STOT-single exposure

May cause drowsiness or dizziness.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.5 Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Based on available data, the classification criteria are not met.

#### Acute (short-term) fish toxicity

Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 11200 mg/l  
Parameter : LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 4480 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 9640 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity

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Effective dose : > 15000 mg/l  
Exposure time : 96 h

### Chronic (long-term) fish toxicity

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Ceriodaphnia spec  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9,6 mg/l

### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9200 - 14300 mg/l  
Exposure time : 48 h

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 3644 mg/l  
Exposure time : 48 h

Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 13299 mg/l  
Exposure time : 48 h

Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9714 mg/l  
Exposure time : 24 h

Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Ceriodaphnia spec  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1806 mg/l

### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 504 h  
Method : OECD 211

### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 3100 mg/l  
Exposure time : 168 h

Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )

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Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 9170 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1800 mg/l  
Exposure time : 168 h  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Chlorella vulgaris  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 275 mg/l  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 440 mg/l  
Parameter : IC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Parameter : ErC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 4800 mg/l  
Exposure time : 72 h  
Method : OECD 201

### Chronic (long-term) algae toxicity

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Algae  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 1150 mg/l  
Exposure time : 48 h

### Toxicity to microorganisms

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 2700 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 100 mg/l  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC10 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 5175 mg/l

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Exposure time : 18 h

### Sewage treatment plant

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Inoculum : Effects in sewage plants  
Effective dose : 5800 mg/l  
Exposure time : 4 h

### 12.2 Persistence and degradability

#### Abiotic degradation

No data available.

#### Biodegradation

No data available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

#### Distribution

Wipes: No data available

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Disposal operations

Dispose according to legislation. Dispose of used cloths in the household waste - do not throw them down the toilet. Consult the appropriate local waste disposal expert about waste disposal.

##### Recovery operations

Non-contaminated packages may be recycled.

##### Waste codes/waste designations according to EWC/AVV

Concentrate/larger quantities: 07 06 99\* (disinfectant).

## SECTION 14: Transport information

### 14.1 UN number

UN 3175

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. ( N-PROPANOL · ETHANOL )

#### Sea transport (IMDG)

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. ( N-PROPANOL · ETHANOL )

#### Air transport (ICAO-TI / IATA-DGR)

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. ( N-PROPANOL · ETHANOL )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 4.1

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**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 40  
**Tunnel restriction code :** E  
**Special provisions :** LQ 1 kg · E 2  
**Hazard label(s) :** 4.1

**Sea transport (IMDG)**  
**Class(es) :** 4.1  
**EmS-No. :** F-A / S-I  
**Special provisions :** LQ 1 kg · E 2  
**Hazard label(s) :** 4.1

**Air transport (ICAO-TI / IATA-DGR)**  
**Class(es) :** 4.1  
**Special provisions :** E 2  
**Hazard label(s) :** 4.1

#### 14.4 Packing group

II

#### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No  
**Sea transport (IMDG) :** No  
**Air transport (ICAO-TI / IATA-DGR) :** No

#### 14.6 Special precautions for user

None

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

##### EU legislation

###### Authorisations and/or restrictions on use

###### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40

##### National regulations

###### Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

#### 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 Indication of changes

03. Hazardous ingredients · 11. Acute toxicity · 11. Skin corrosion/irritation · 11. Serious eye damage/eye irritation · 11. Respiratory or skin sensitisation · 11. Carcinogenicity · 11. Germ cell mutagenicity · 11. Reproductive toxicity · 11. STOT-single exposure · 11. STOT-repeated exposure · 11. Aspiration hazard · 12. Aquatic toxicity

#### 16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimates  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

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CMR = Carcinogen, Mutagen or Reproductive toxicant  
CO<sub>2</sub> = Carbon dioxide  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EC = European Commission  
EC50 = Half maximal effective concentration  
EN = European Standard (Norm)  
EU = European Union  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
H statement = GHS Hazard statement  
IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions  
IMDG = International Maritime Dangerous Goods  
LC50 = Median lethal concentration  
LD50 = Median lethal dose  
LogPow = Logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NOEC/NOEL = No observed effect concentration/level  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RMM = Risk Management Measure  
RRN = REACH Registration Number  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
SVHC = Substances of Very High Concern  
TLV/STEL = Threshold limit value/short-term exposure limit  
TLV/TWA = Threshold limit value/time weighted average  
UN = United Nations  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

Notice the directions for use on the label.



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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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