

# Safety Data Sheet

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

Trade name : W&H Cleaning Solution MC-1000 02680200  
Revision : 28.02.2017  
Print date : 13.03.2017

Version (Revision) : 3.0.0 (2.0.0)

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

### 1.1 Product identifier

W&H Cleaning Solution MC-1000 02680200

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

#### Relevant identified uses

Cleaner for turbines, straight and contra-angle handpieces, air motors etc. with W&H ASSISTINA.

#### Product Categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

#### 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 :** W&H DENTALWERK BÜRMOOS G.m.b.H., Ignaz-Glaser-Str. 53, A-5111 Bürmoos Austria

Phone No.: +43 6274/6236-0, Telefax No.: +43 6274 6236-55

### 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. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

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

#### Classification procedure

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

### 2.2 Label elements

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

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard components for labelling

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

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### Hazard statements

H226 Flammable liquid and vapour.  
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.  
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+P235 Store in a well-ventilated place. Keep cool.  
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

W&H Cleaning solution contains alcohols and auxiliary agents in aqueous solution.

#### Hazardous ingredients

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

Weight fraction :  $\geq 30 - < 35$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336

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

Weight fraction :  $\geq 25 - < 30$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

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

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

#### 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

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

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

#### After eye contact

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

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

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

Vapours may cause drowsiness and dizziness.

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

None

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

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

##### Unsuitable extinguishing media

High power water jet

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

None known.

##### Hazardous combustion products

Vapours can form explosive mixtures with air.

#### 5.3 Advice for firefighters

Cool endangered containers with water in case of 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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

##### For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

##### Other information

Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

None

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Keep away from sources of ignition. - No smoking. Provide adequate ventilation. Do not breathe vapour/aerosol.

##### Protective measures

###### Measures to prevent fire

Usual measures for fire prevention. Keep away from sources of ignition. - No smoking.

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

##### Requirements for storage rooms and vessels

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

### Hints on joint storage

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

### 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>

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/DMEL and PNEC values

There are no data available on the preparation itself.

##### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

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

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 81 mg/kg

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

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

Limit value type : DNEL Consumer (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 61 mg/kg

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 1723 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 136 mg/kg

Limit value type : DNEL worker (systemic) ( 1-PROPANOL ; CAS No. : 71-23-8 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 268 mg/m<sup>3</sup>

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Limit value type : DNEL Consumer (local) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 950 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 87 mg/kg  
Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 206 mg/kg  
Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 114 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 1900 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 343 mg/kg  
Safety factor : 24 h

Limit value type : DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 950 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 319 mg/kg  
Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 89 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 26 mg/kg  
Safety factor : 24 h

Limit value type : DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 888 mg/kg  
Safety factor : 24 h

Limit value type : DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 500 mg/m<sup>3</sup>

**PNEC**  
Limit value type : PNEC aquatic, freshwater ( 1-PROPANOL ; CAS No. : 71-23-8 )

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Limit value :	10 mg/l
Limit value type :	PNEC aquatic, marine water ( 1-PROPANOL ; CAS No. : 71-23-8 )
Limit value :	1 mg/l
Limit value type :	PNEC (Industrial) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route :	Soil
Limit value :	2,2 mg/kg
Limit value type :	PNEC sediment, freshwater ( 1-PROPANOL ; CAS No. : 71-23-8 )
Limit value :	22,8 mg/kg
Limit value type :	PNEC sediment, marine water ( 1-PROPANOL ; CAS No. : 71-23-8 )
Limit value :	2,28 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route :	Water (Including sewage plant)
Limit value :	96 mg/l
Limit value type :	PNEC aquatic, freshwater ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,96 mg/l
Limit value type :	PNEC aquatic, marine water ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,79 mg/l
Limit value type :	PNEC (Industrial) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Soil
Limit value :	0,63 mg/kg
Limit value type :	PNEC sediment, freshwater ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	3,6 mg/kg
Limit value type :	PNEC sediment, marine water ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	2,9 mg/kg
Limit value type :	PNEC Secondary Poisoning ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	729 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	580 mg/l
Limit value type :	PNEC aquatic, freshwater ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, marine water ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	140,9 mg/l
Limit value type :	PNEC (Industrial) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Soil
Limit value :	28 mg/kg
Limit value type :	PNEC sediment, freshwater ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	552 mg/kg
Limit value type :	PNEC sediment, marine water ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	552 mg/kg
Limit value type :	PNEC Secondary Poisoning ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	160 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	2251 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.

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### Body protection

Body protection: not required.

### Respiratory protection

Usually no personal respirative protection necessary.

### General health and safety measures

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

### Occupational exposure controls

#### Technical measures to prevent exposure

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** colourless

**Odour :** Alcohol

#### Safety relevant basis data

<b>Melting point/melting range :</b>	( 1013 hPa )		No data available	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		No data available	
<b>Decomposition temperature :</b>	( 1013 hPa )		No data available	
<b>Flash point :</b>			25 °C	
<b>Ignition temperature :</b>			360 °C	
<b>Lower explosion limit :</b>			2,1 Vol-%	
<b>Upper explosion limit :</b>			15 Vol-%	
<b>Vapour pressure :</b>	( 50 °C )	approx.	150 hPa	
<b>Density :</b>	( 20 °C )		0,87 - 0,91 g/cm <sup>3</sup>	
<b>Solvent separation test :</b>	( 20 °C )	<	3 %	
<b>Water solubility :</b>	( 20 °C )		100 Wt %	
<b>pH value :</b>			5 - 8,5	
<b>log P O/W :</b>			No data available	
<b>Flow time :</b>	( 20 °C )	<	20 s	DIN-cup 4 mm
<b>Odour threshold :</b>			No data available	
<b>Maximum VOC content (EC) :</b>			59,7 Wt %	
<b>Oxidising liquids :</b>			Not applicable.	
<b>Explosive properties :</b>			Not applicable.	
<b>Corrosive to metals :</b>			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

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

No information available.

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### 10.5 Incompatible materials

Oxidising agent.

### 10.6 Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	10470 mg/kg
Method :	OECD 401
Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5280 mg/kg
Parameter :	LD50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1870 mg/kg
Parameter :	LD50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	8000 mg/kg
Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5840 mg/kg
Method :	OECD 401
Parameter :	LD50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	6300 mg/kg
Method :	OECD 401.

##### Practical experience/human evidence

The product does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions.

##### Acute dermal toxicity

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



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Effective dose : not relevant  
Parameter : LD50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 4000 - 10000 mg/kg  
Parameter : LD50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 4032 mg/kg  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 12800 mg/kg  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 13900 mg/kg  
Method : OECD 402  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 20 g/kg  
Method : OECD 402.

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalative (vapour)  
Effective dose : not relevant  
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 ( 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 ( 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 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 125 mg/l  
Exposure time : 4 h  
Method : OECD 403

### Irritant and corrosive effects

Rabbit's eye: no irritation. Method : OECD 405.

### Sensitisation

There are no data available on the mixture itself.

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

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### Subacute oral toxicity

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

No information available.

### 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

There are no data available on the preparation itself.

#### 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  
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) daphnia toxicity

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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) daphnia toxicity

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) algae toxicity

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 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 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

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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

### Bacteria toxicity

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 : EC10 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 5175 mg/l  
Exposure time : 18 h

### Effects in sewage plants

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

The product is easily biodegradable according to OECD criteria. Method : OECD 301 D.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

### Known or predicted distribution to environmental compartments

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There are no data available on the preparation itself.

### Adsorption/Desorption

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

No information available.

#### 12.7 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

##### Waste code product

Concentrate/larger quantities: 18 01 06\* (disinfectant).

##### Waste treatment options

###### Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

###### Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

UN 1987

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ALCOHOLS, N.O.S. ( N-PROPANOL · ETHANOL )

#### Sea transport (IMDG)

ALCOHOLS, N.O.S. ( N-PROPANOL · ETHANOL )

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

ALCOHOLS, N.O.S. ( N-PROPANOL · ETHANOL )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : LQ 5 | · E 1  
Hazard label(s) : 3

#### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-D  
Special provisions : LQ 5 | · E 1  
Hazard label(s) : 3

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

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

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### 14.4 Packing group

III

### 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

#### 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

02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling  
· 03. Hazardous ingredients

### 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]

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

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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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### 16.6 Training advice

None

### 16.7 Additional information

Notice the directions for use on the label.

---

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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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : W & H Service Oil F1 MD 500 STANDARD  
Article-No. : 028119

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

Use of the Substance/Mixture : Lubricating oil  
Recommended restrictions on use : Restricted to professional users.

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

Klüber Lubrication München  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 333  
info@klueber.com

E-mail address : mcm@klueber.com  
Responsible/issuing person : Material Compliance Management

National contact : Klüber Lubrication Great Britain Limited  
Unit 10 Pennine Business Park  
Longbow Close  
Huddersfield  
West Yorkshire HD2 1GQ  
Great Britain  
Tel: +44-1422-205115  
Fax: +44-1422-206073  
sales@uk.klueber.com

#### 1.4 Emergency telephone number

+49 89 7876 700 (24 hrs)

---

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.



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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### Additional Labelling:

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

## 3. Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil ester oil

#### Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Dec-1-ene, dimers, hydrogenated	68649-11-6	Xn; R20 Xn; R65	Acute Tox. 4; H332 Asp. Tox. 1; H304	>= 1 - < 10

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.

## 4. First aid measures

### 4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
If unconscious place in recovery position and seek medical

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advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No information available.

Risks : None known.

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

Treatment : No information available.

---

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.

---

## 6. Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so.

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Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

---

## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.  
Avoid inhalation of vapour or mist.

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

Requirements for storage areas and containers : Store in original container.  
Keep container closed when not in use.  
Keep in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with the particular national regulations.  
Keep in properly labelled containers.

### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

---

## 8. Exposure controls/personal protection

### 8.1 Control parameters

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Contains no substances with occupational exposure limit values.

### DNEL

Dec-1-ene, dimers,  
hydrogenated : End Use: Industrial use  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 60 mg/m<sup>3</sup>

## 8.2 Exposure controls

### Engineering measures

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

- Respiratory protection : Not required; except in case of aerosol formation.  
Filter type A-P
- Hand protection : For prolonged or repeated contact use protective gloves.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
In case of contact through splashing:  
  
: Nitrile rubber  
Protective index Class 1
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- ### Environmental exposure controls
- General advice : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

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### 9. Physical and chemical properties

The data/values refer to the main component:

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 200 °C, Test Method: open cup, ISO 2592
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: < 0.17 hPa, 20 °C
Relative vapour density	: No data available
Density	: 0.84 g/cm <sup>3</sup> , 20 °C
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 22 mm <sup>2</sup> /s, 40 °C
Explosive properties	: Not explosive
Oxidizing properties	: No data available

#### 9.2 Other information

Sublimation point	: No data available
Bulk density	: No data available

### 10. Stability and reactivity

#### 10.1 Reactivity

None reasonably foreseeable.

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### 10.2 Chemical stability

Stable under normal conditions.

### 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 : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

---

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

- Acute oral toxicity : This information is not available.
- Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method
- Acute dermal toxicity : This information is not available.
- Skin corrosion/irritation : This information is not available.
- Serious eye damage/eye irritation : This information is not available.
- Respiratory or skin sensitisation : This information is not available.
- Germ cell mutagenicity
- Genotoxicity in vitro : No data available
- Genotoxicity in vivo : No data available
- Carcinogenicity : No data available
- Reproductive toxicity : No data available
- Teratogenicity : No data available
- Repeated dose toxicity : This information is not available.
- Aspiration toxicity : This information is not available.
- Further information : Information given is based on data on the components and the toxicology of similar products.

#### Components:

##### **Dec-1-ene, dimers, hydrogenated :**

Acute oral toxicity : LD50: > 5,000 mg/kg, Rat, OECD Test Guideline 401, GLP: yes

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Acute inhalation toxicity	: LC50: 1.17 mg/l, 4 h, Rat, dust/mist, OECD Test Guideline 403, GLP: yes
Acute dermal toxicity	: LD50: > 3,000 mg/kg, Rabbit, OECD Test Guideline 402, The substance or mixture has no acute dermal toxicity
Skin corrosion/irritation	: Rabbit, Result: No skin irritation, Classification: No skin irritation, OECD Test Guideline 404
Serious eye damage/eye irritation	: Rabbit, Result: No eye irritation, Classification: No eye irritation, OECD Test Guideline 405
Respiratory or skin sensitisation	: Maximisation Test (GPMT), Guinea pig, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation., OECD Test Guideline 406, GLP: yes
Aspiration toxicity	: May be fatal if swallowed and enters airways.

## 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

#### Components:

##### **Dec-1-ene, dimers, hydrogenated :**

Toxicity to fish	: LC50: > 1,000 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 1,000 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes
Toxicity to algae	: EC50: > 1,000 mg/l, 72 h, Scenedesmus capricornutum (fresh water algae), static test, OECD Test Guideline 201, GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 125 mg/l, 21 d, Daphnia magna (Water flea), OECD Test Guideline 211, GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability	: No data available
Physico-chemical	: No data available

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removability

### **Components:**

#### **Dec-1-ene, dimers, hydrogenated :**

Biodegradability : Result: Not rapidly biodegradable

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

### 12.4 Mobility in soil

#### **Product:**

Mobility : No data available

Distribution among environmental compartments : No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **Components:**

#### **Dec-1-ene, dimers, hydrogenated :**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6 Other adverse effects

#### **Product:**

Additional ecological information : No information on ecology is available.

---

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

: Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with the local regulations.



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### 14. Transport information

#### 14.1 UN number

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.2 Proper shipping name

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.3 Transport hazard class

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.4 Packing group

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

---

### 15. Regulatory information

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

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Major Accident Hazard Legislation	:	96/82/EC Update: Not applicable

### 15.2 Chemical Safety Assessment

This information is not available.

---

## 16. Other information

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

R20	Harmful by inhalation.
R65	Harmful: may cause lung damage if swallowed.

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

H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.

### Further information

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