SAFETY DATA SHEETS

This SDS packet was issued with item: 071030725

N/A

Trade name : Revision date : Date of print : W&H Cleaning Solution MC-1000 12.01.2014 12.01.2014

Version (Revision) :

2.0.0 (1.0.0)

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

1.1 Product identifier

W&H Cleaning Solution MC-1000

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

STOT SE 3 ; H336 - Specific target organ toxicity (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.

Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable. ' Vapours may cause drowsiness and dizziness.

R 10 · R 67

2.2 Label elements

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



Flame (GHS02) · Exclamation mark (GHS07)

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Signal word	
Warning	
Hazard statements	
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
Precautionary state	ements
P210	Keep away from heat/sparks/open flames/hot surfaces 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.
Labelling (67/54	48/EEC or 1999/45/EC)
R-phrases	
10	Flammable.
67	Vapours may cause drowsiness and dizziness.
S-phrases	
37	Wear suitable gloves.
16	Keep away from sources of ignition - No smoking.
Other hazards	
None	
, ione	
CTION 3: Composit	ion/ information on ingredients
Mixtures	
Description	
	contains alcohols and auxiliary agents in aqueous solution.
Hazardous ingredie	
-	registration No. : 01-2119486761-29 ; EC No : 200-746-9; CAS No. : 71-23-8
Weight fraction :	30 - 35 %
Classification 67/548	
Classification 1272/20	
	istration No. : 01-2119457610-43 ; EC No : 200-578-6; CAS No. : 64-17-5
Weight fraction ;	25 - 30 %

SEC

3.2

2.3

Weight fraction : 25 - 30 % Classification 67/548/EEC : F;R11 Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 PROPAN-2-OL ; REACH registration No. : 01-2119457558-25 ; EC No : 200-661-7; CAS No. : 67-63-0 Weight fraction : 1 - 2 % Classification 67/548/EEC : F; R11 Xi; R36 R67 Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336 Additional information Full text of R-, 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.
	After inhalation
	Provide fresh air. In case of respiratory tract irritation, consult a physician.
	In case of skin contact

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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, mmediately 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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). 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.

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

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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. Open and handle container with care. Keep away from sources of ignition. - No smoking. Provide adequate ventilation. Do not breathe vapour/aerosol.

Protective measures

Fire prevent measures

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

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) :	
Limit value :	250 ppm / 625 mg/m ³
ETHANOL ; CAS No. : 64-17-5	
Limit value type (country of origin) :	TLV/TWA (GB)
Limit value :	1000 ppm / 1920 mg/m ³
PROPAN-2-OL ; CAS No. : 67-63-0	
Limit value type (country of origin) :	TLV/STEL (GB)
Limit value :	500 ppm / 1250 mg/m ³
Limit value type (country of origin) :	TLV/TWA (GB)
Limit value :	400 ppm / 999 mg/m ³

DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type :	DNEL/DMEL (DNEL Consumer, Local) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	950 mg/m ³
Limit value type :	DNEL/DMEL (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/DMEL (DNEL Consumer, Systemic) (1-PROPANOL ; CAS No. : 71-23-8)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1036 mg/m ³
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal

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Exposure frequency :	Long-term (repeated)
Limit value :	319 mg/kg
Safety factor :	24 h
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	89 mg/m ³
Limit value type :	DNEL/DMEL (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/DMEL (DNEL Consumer, Systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	206 mg/kg
Safety factor :	
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	114 mg/m ³
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (1-PROPANOL ; CAS No. : 71-23-8)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated) 80 ma/m ³
Limit value :	
Limit value type : Exposure route :	DNEL/DMEL (DNEL Consumer, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0) Oral
Exposure frequency :	
Limit value :	Long-term (repeated) 26 mg/kg
Safety factor :	24 h
Limit value type :	DNEL/DMEL (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/DMEL (Worker, Locał) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value ;	1900 mg/m ³
Limit value type :	DNEL/DMEL (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/DMEL (Worker, Systemic) (1-PROPANOL ; CAS No. : 71-23-8)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1723 mg/m ³
Limit value type :	DNEL/DMEL (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/DMEL (Worker, Systemic) (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	500 mg/m ³
Limit value type :	DNEL/DMEL (Worker, Systemic) (1-PROPANOL ; CAS No. : 71-23-8)

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Exposure route : Dermal Exposure frequency : Long-term (repeated) Limit value : 136 mg/kg Limit value type : DNEL/DMEL (Worker, Systemic) (ETHANOL ; CAS No. : 64-17-5) Exposure route : Inhalation Exposure frequency : Long-term (repeated) 950 mg/m³ Limit value : Limit value type : DNEL/DMEL (Worker, Systemic) (1-PROPANOL ; CAS No. : 71-23-8) Exposure route : Inhalation Exposure frequency : Long-term (repeated) LimIt value : 268 mg/m³ **PNEC** Limit value type : PNEC aquatic, freshwater (ETHANOL; CAS No.: 64-17-5) Limit value : 960 µa/l Limit value type : PNEC aquatic, freshwater (1-PROPANOL; CAS No.: 71-23-8) Limit value : 10 ma/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 PNEC aquatic, marine water (1-PROPANOL; CAS No.: 71-23-8) Limit value type : Limit value : 1 mg/l Limit value type : PNEC aquatic, marine water (ETHANOL; CAS No.: 64-17-5) Limit value : 790 µg/l Limit value type : PNEC (Industrial) (ETHANOL ; CAS No. : 64-17-5) Exposure route : Soil Limit value : 0,63 mg/kg PNEC (Industrial) (1-PROPANOL; CAS No.: 71-23-8) Limit value type : Exposure route : Soll Limit value : 2,2 mg/kg Limit value type : PNEC (Industrial) (PROPAN-2-OL ; CAS No. : 67-63-0) Exposure route : Soil 28 mg/kg Limit value : Limit value type : PNEC sediment, freshwater (PROPAN-2-OL ; CAS No. : 67-63-0) Limit value : 552 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, freshwater (ETHANOL ; CAS No. : 64-17-5) Limit value : 3.6 ma/ka Limit value type : PNEC sediment, marine water (1-PROPANOL; CAS No.: 71-23-8) Limit value : 2,28 mg/kg Limit value type : PNEC Secondary Poisoning (ETHANOL ; CAS No. : 64-17-5) Limit value : 0,72 mg/kg Limit value type : PNEC Secondary Poisoning (PROPAN-2-OL ; CAS No. : 67-63-0) Limit value : 160 ma/ka 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

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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.

Body protection

Body protection: not applicable.

Respiratory protection

Usually no personal respirative protection necessary.

General health and safety measures

Keep away from food, drink and animal feeding stuffs. 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 relevan	it basis dat	a				
Melting point / me	lting range :	(1013 hPa)		No data available		
Bolling temperatu	re / boiling rang	je (1013 hPa)		No data available		
, Decomposition ter	nperature :	(1013 hPa)		No data available		
Flash point :		,,		25	°C	
Ignition temperate	ure :			360	°C	
Lower explosion li				2,1	Vol-%	
Upper explosion li				15	Vol-%	
Vapour pressure :		(50 °C)	ca.	150	hPa	
Density :		(20 °C)		0,87 - 0,91	g/cm ³	
Solvent separation	n test :	(20 °C)	<	3	%	
Water solubility :		(20 °C)		100	Wt %	
pH value :				5 - 8,5		
log P O/W :				No data available		
Flow time :		(20 °C)	<	20	5	DIN-cup 4 mm
Odour threshold :				No data available		
Oxidising liquids :		Not applicable.				
Explosive properti	es :	Not applicable.				
Corrosive to meta		Not corrosive to m	etals.			
	_					

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),

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Date of print : 12.01-2014 10.3 Possibility of hazardous reactions Vapous can form exploave mixtures with air. 10.4 Conditions to avoid No information available. 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 effects Acute effects Acute oral toxicity Parameter : LDS0 Exposure route : Oral Species : Protacial experience/human evidence The product does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions. Acute inhalation toxicity Parameter : LDS0 Exposure route : Demmal Species : Rat Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 401. Effective dose : Parameter : LDS0 Exposure route : Demmal Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 402. Acute Inhalation Species : Rat	Trade name :		g Solution MC-1000		200(100)
Vapours can form explosive mixtures with air. 11.1 Conditions to avoid No lofformation available. 11.5 Incompatible materials Oxidising agent. 11.6 Hazardous decomposition products None known. SECTION 11: Toxicological information Section	Date of print :			version (Revision) :	2.0.0 (1.0.0)
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Ovidilising agent. 13.05 Hazardous decomposition products None known. SECTION 11: Toxicological information 13.11 Information on toxicological effects Acute effects Acute oral toxicity Parameter : LD50 Exposure route : Oral Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 40.1. Parameter : Parameter : LD50 Exposure route does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions. Acute dermal toxicity Parameter : Parameter : LD50 Exposure route : Demail Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 402. Acute Inhalation toxicity Parameter : LC50 (1:PROPANOL; CAS No. : 71:23-8) Exposure route : Inhalation Species : Rat Effective dose : > 33.8 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 51 mg/l Exposure route : Inhalation					
19.5 Hazardous decomposition products None known. SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute offects Acute of	-				
1.1.1 Information on toxicological effects Acute oral toxicity Parameter : LD50 Exposure route : Oral Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 401. Parameter : Parameter : LD50 exposure route : > 2000 mg/kg Methode : OECD 401. Parameter : Parameter : LD50 Exposure route : Dermal Species : Rat Effective dose : > 2000 mg/kg Methode : OECD 402. Parameter : Acute inhalation toxicity Parameter : Parameter : LC50 (1-PROPANOL ; CAS No. : 71-23-8) Exposure route : Inhalation Species : Rat Effective dose : > 33,8 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 51 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 51 mg/l Exposure route : Inhalation Species :	10.6 Hazardous		products		
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Methode : 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 Methode : OECD 402. Acute inhalation toxicity Parameter : LCS0 (1-PROPANOL ; CAS No. : 71-23-8) Exposure route : Inhalation Species : Rat Effective dose : > 33,8 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 33,8 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 51 mg/l Exposure route : Inhalation Species : Rat Effective dose : > 51 mg/l Exposure time : 4 h Parameter : LD50 (PROPAN-2-OL ; CAS No. : 67-63-0) Exposure route : Inhalation Species : Rat	•	050 1			
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	Acute inhal Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure r Specles : Effective d Irritant ar Rabbit 's eye	route : lose : clime : route : lose : clime : route : lose : nd corrosive eff e: no irritation. Method	Inhalation Rat > 33,8 mg/l 4 h LC50 (ETHANOL ; CAS Inhalation Rat > 51 mg/l 4 h LD50 (PROPAN-2-OL ; Inhalation Rat 47,5 mg/l fects de : OECD 405.	No. : 64-17-5)	
The classification was carried out according to the calculation method of Pegulation No. (EC) 1272/2009 [CLP] as well	Acute inhal Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure r Specles : Effective de Irritant ar Rabbit 's eve Sensitisat	route : lose : cime : route : lose : time : route : lose : nd corrosive eff e: no irritation. Method tion o data available on the	Inhalation Rat > 33,8 mg/l 4 h LC50 (ETHANOL ; CAS Inhalation Rat > 51 mg/l 4 h LD50 (PROPAN-2-OL ; Inhalation Rat 47,5 mg/l fects de : OECD 405.	No. : 64-17-5)	
The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house Investigations.	Acute inhal Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure r Specles : Effective de Exposure t Parameter : Exposure t Specles : Effective d Irritant ar Rabbit 's eve Inter a re no 11.4 Additional	route : lose : cime : route : lose : time : route : lose : nd corrosive eff e: no irritation. Method tion o data available on the information	Inhalation Rat > 33,8 mg/l 4 h LC50 (ETHANOL ; CAS Inhalation Rat > 51 mg/l 4 h LD50 (PROPAN-2-OL ; Inhalation Rat 47,5 mg/l Fects de : OECD 405.	No. : 64-17-5) CAS No. : 67-63-0)	008 [C] 2] 200

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12.1 Toxicity	
12.1 Toxicity	
Aquatic toxicity	
There are no data available on the	
Acute (short-term) fish toxici	
Parameter :	LC50 (ETHANOL ; CAS No. : 64-17-5)
Specles :	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 : Effective dose :	Acute (short-term) fish toxicity
Effective dose : Exposure time :	4480 mg/l 96 h
·	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Parameter : Specles :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	9640 mg/l
Exposure time :	96 h
Acute (short-term) daphnia te	
Parameter :	EC50 (1-PROPANOL ; CAS No. : 71-23-8)
Specles :	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)
Specles :	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 :	Daphnla magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	9714 mg/l
Exposure time :	24 h
Parameter :	EC50 (ETHANOL ; CAS No. : 64-17-5)
Species :	Ceriodaphnia spec
Evaluation parameter :	Acute (short-term) daphnia toxiclty
Effective dose :	1806 mg/l
Acute (short-term) algae tox	
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 EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Parameter : Species :	Pseudokirchheriella 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

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	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
	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 :	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
12.2	Persistence and degradabil	ity
	Abiotic degradation	
	No data available.	
	Biodegradation	
	-	according to OECD evitavia, Mathada LOECD 201 D
		according to OECD criteria. Methode : OECD 301 D.
12.3	Bioaccumulative potential	
	No information available.	
12.4	Mobility in soil	
	-	oution to environmental compartments
	There are no data available on the	-
10.5	Results of PBT and vPvB as	
12.3		sessment
	No information available.	
12.6	Other adverse effects	
	No information available.	
12.7	Further ecological information	tion
	Prevent from flowing into surface wa	
	Therefield from norming into builded the	
SEC	TION 13: Disposal consider	ations
13.1	Waste treatment methods	
10.1		
	Product/Packaging dispose	
	Waste codes / waste designati	ons according to EWC
	Waste code product	
	Concentrate/larger quantities: 18	3 01 06* (disinfectant).
	Waste treatment options	
	Appropriate disposal / Produc	
		Consult the appropriate local waste disposal expert about waste disposal.
	Appropriate disposal / Packag	je

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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 | · LQ 7 · E 1 Hazard label(s) : 3 Sea transport (IMDG) Class(es) : 3 EmS-No. : F-E / S-D Special provisions : LQ 5 I · E 1 Hazard label(s) : 3 Air transport (ICAO-TI / IATA-DGR) Class(es) : 3 Special provisions : E 1 Hazard label(s) : 3 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 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

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.

Safety Data Sheet

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

Trade name : **Revision date :** Date of print :

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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. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 08. Occupational exposure limit values

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 $CO_2 = Carbon dioxide$ 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

Classification for mixtures and used evaluation method according to regulation (EC) 16.4 1207/2008 [CLP]

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

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.

	llation (EC) No. 1907/2006 (REACH)		
Trade name :	W&H Cleaning Solution MC-1000		
Revision date :	12.01.2014	Version (Revision) :	2.0.0 (1.0.0
Date of print :	12.01.2014		
H226	Flammable liquid and vapour.		
H318	Causes serious eye damage.		
H319	Causes serious eye Irritation.		
H336	May cause drowsiness or dizziness.		
10	Flammable.		
11	Highly flammable.		
36	Irritating to eyes.		
41	Risk of serious damage to eyes.		
67	Vapours may cause drowsiness and dizziness.		
16.5 Training advid	ce		
None			

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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1. Identification of the sub	stance/mixture and of the company/u	ndertaking
1.1 Product identifier		
Product name	: W & H Service Oil F1 MD 500	
Article-No.	: 028073	
1.2 Relevant identified uses of Use of the Substance/Mixture	of the substance or mixture and uses advint : Lubricating oil	ised against
1.3 Details of the supplier of	the safety data sheet	
	KLÜBER LUBRICATION MÜNCHEI Geisenhausenerstrasse 7 D-81379 München Deutschland	N

Tel: +49 (0) 897876-0 Fax: +49 (0) 897876-333

E-mail address Responsible/issuing person	:	mcm@klueber.com Material Compliance Management
National contact		Klüber Lubrication Great Britain Ltd, Hough Mills, Northowram Halifax, HX3 7BN Great Britain Tel: +44-1422-205115

1.4 Emergency telephone number

0049 (0) 897876-700 (24hrs)

Fax: +44-1422-206073 sales@uk.klueber.com

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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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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	ł	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		If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If swallowed	:	If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. Do NOT induce vomiting. Do not give anything to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.



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: Move the victim to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

5. Firefighting measures 5.1 Extinguishing media Use extinguishing measures that are appropriate to local Suitable extinguishing media circumstances and the surrounding environment. Unsuitable extinguishing : none media 5.2 Special hazards arising from the substance or mixture Specific hazards during Fire may cause evolution of: Carbon oxides firefighting 5.3 Advice for firefighters Special protective equipment In the event of fire, wear self-contained breathing apparatus. for firefighters 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
2 Environmental precautions	

6.2 Environmental precautions

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).

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6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

andling	 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
	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	2	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. 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.
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7.3 Specific end use(s)

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL	
Dec-1-ene, dimers,	End Use: Industrial use
hydrogenated	Exposure routes: Inhalation
	Potential health effects: Acute systemic effects
	Value: 60 mg/m3

8.2 Exposure controls



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Engineering measures

Maintain air concentrations below occupational exposure standards. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Respiratory protection	:	In the case of vapour formation use a respirator with an approved filter.	
Hand protection	1000	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 choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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.	
Eye protection	1	Safety glasses with side-shields conforming to EN166	
Hygiene measures		Wash face, hands and any exposed skin thoroughly after handling.	
Protective measures	1010	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	courses. Prevent furt	vent the material from entering drains or water rther leakage or spillage if safe to do so. orities should be advised if significant spillages contained.
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9. Physical and chemical properties

The data/values refer to the main component.

9.1 Information on basic phys	sical and chemical properties
Appearance	: liquid
Colour	: yellow
Odour	: characteristic

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Odour Threshold	No data available		
рН	🛊 No data available		
Melting point/range	No data available		
Boiling point/boiling range	No data available		
Flash point	> 200 °C, Test Method: open cup, ISC	> 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/cm3, 20 °C		
Water solubility	: insoluble		
Solubility in other solvents Partition coefficient: n- octanol/water Auto-ignition temperature Ignition temperature Viscosity, dynamic	🗄 No data available		
	: No data available		
	: No data available		
	: No data available		
	: No data available		
Viscosity, kinematic	: 22 mm2/s, 40 °C		
Oxidizing properties	: No data available		
.2 Other information			
Sublimation point	🗉 No data available		
Bulk density	No data available		
0. Stability and reactivity			
0.1 Reactivity			
0.2 Chemical stability			
No decomposition if stored a	nd applied as directed.		
0.3 Possibility of hazardous re	eactions		
Hazardous reactions	: No dangerous reaction known under	conditions of normal use	
0.4 Conditions to avoid			
Conditions to avoid	: No conditions to be specially mentio	ned.	

10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

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11. Toxicological information

11.1 Information on toxicological effects

Product

Toutot		
Acute oral toxicity	ě	This information is not available.
Acute inhalation toxicity	**	Acute toxicity estimate: > 5 mg/l, 4 h, dust/mist, Calculation method
Skin corrosion/irritation	ŝ	This information is not available.
Serious eye damage/eye irritation	2	This information is not available.
Respiratory or skin sensitisation		This information is not available.
Carcinogenicity		No data available
Reproductive toxicity	ŝ	No data available
Teratogenicity	ii.	No data available
Repeated dose toxicity		This information is not available.
Aspiration toxicity	3	This information is not available.
Further information	3	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	
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	
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:



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Toxicity to fish		No data available				
Toxicity to daphnia and other aquatic invertebrates Toxicity to algae Toxicity to bacteria		No data available				
		No data available				
		No data available				
Components:						
Dec-1-ene, dimers, hydroge	nat	ed :				
Toxicity to fish	:	LC50: > 1,000 mg/l, 96 h, Oncorhynch trout), semi-static test, OECD Test Gu				
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 1,000 mg/l, 48 h, Daphnia ma Immobilization, OECD Test Guideline				
Toxicity to algae		EC50: > 1,000 mg/l, 72 h, Scenedesr (fresh water algae), static test, OECI GLP: yes				
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	î.	NOEC: 125 mg/l, 21 d, Daphnia mag Test Guideline 211, GLP: yes	ına (Water flea), OECD			
12.2 Persistence and degradabil	ity					
Product:						
Biodegradability		No data available				
Physico-chemical removability <u>Components:</u>	ļ	No data available				
Dec-1-ene, dimers, hydroge	nat	ed :				
Biodegradability	30	Result: not rapidly biodegradable				
12.3 Bioaccumulative potential						
Product:						
Bioaccumulation	ŝ					
		This mixture contains no substance co persistent, bioaccumulating nor toxic (contains no substance considered to b very bioaccumulating (vPvB).	(PBT)., This mixture			
12.4 Mobility in soil						
Product:						
Mobility Distribution among environmental compartments		No data available No data available				
12.5 Results of PBT and vPvB as	sse	ssment				
Product:						



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Assessment	 This substance/mixture contains no to be either persistent, bioaccumulat very persistent and very bioaccumulat 0.1% or higher. 	ive and toxic (PBT), or
Components:		
Dec-1-ene, dimers, hydroger	nated :	
Assessment	 This substance is not considered to bioaccumulating nor toxic (PBT)., Th considered to be very persistent nor (vPvB). 	his substance is not
12.6 Other adverse effects		

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.

14. Transport information

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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



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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 data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available

15. Regulatory information

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

not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).			oes not contain substances of very high Ilation (EC) No 1907/2006 (REACH), Article 57).
Major Accident Hazard	1	96/82/EC	Update:

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Legislation

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

R20Harmful by inhalation.R65Harmful: 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.

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