



Ultrasonics.Steam.Ultraclean.

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 09.08.2018

Revision 26.10.2017 (GB) Version 2.1

**WF PRO**

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

### 1.1. Product identifier

Name of product WF PRO

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

#### Identified uses

#### Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

#### Uses advised against

#### Remark

Do not use for injecting or spraying.

#### ! Recommended intended purpose(s)

Ready for use water-free cleaning solution for disassembled and assembled clockwork and for metallic precision parts.

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

#### Manufacturer/distributor

Elma Schmidbauer GmbH  
Gottlieb-Daimler-Str. 17, D-78224 Singen (Htwl.)  
Phone +49 7731 882-0, Fax +49 7731 882-266  
E-Mail info@elma-ultrasonic.com  
Internet www.elma-ultrasonic.com

#### Advice

Chemie/Labor: Email: chemlab@elma-ultrasonic.com

### 1.4. Emergency telephone number

#### Emergency advice

Vergiftungs-Informations-Zentrale Freiburg  
(Sprache/Language: D, GB)  
Phone +49 761 19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Flam. Liq. 3	H226	On basis of test data.
Skin Irrit. 2	H315	Calculation method.
Eye Dam. 1	H318	Calculation method.
STOT SE 3	H336	Calculation method.
STOT RE 1	H372	Calculation method.
Asp. Tox. 1	H304	Expert judgement and weight of evidence determination.
Aquatic Chronic 2	H411	Calculation method.

#### Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H372	Causes damage to central nervous system through prolonged or repeated exposure.



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H411 Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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



GHS02



GHS05



GHS07



GHS08



GHS09

### Signal word

Danger

### Hazard Statements

- H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to central nervous system through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a doctor.  
P314 Get medical advice/attention if you feel unwell.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P405 Store locked up.

### Hazardous ingredients for labeling

3-Methylbut-2-en-1-ol, Mixture of hydrocarbons [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)], n-butanol

### 2.3. Other hazards

Aquatic Acute 2 H401: Toxic to aquatic life.

### Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.



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**! SECTION 3: Composition/ information on ingredients**

**3.1. Substances**

not applicable

**3.2. Mixtures**

**Description**

Mixture of aliphatic, isoaliphatic and aromatic hydrocarbons (C9-C12) with additives of soap, ammonia and alkoxy.

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
64742-82-1	919-446-0	Mixture of hydrocarbons [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)]	90 - 100	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / STOT RE 1, H372 / , EUH066 / Aquatic Chronic 2, H411
71-36-3	200-751-6	n-butanol	< 5	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H335 / STOT SE 3, H336
556-82-1	209-141-4	3-Methylbut-2-en-1-ol	< 5	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / Skin Corr. 1C, H314 / Eye Dam. 1, H318
1336-21-6	215-647-6	ammonia ....%	< 1	Met. Corr. 1, H290 / Acute Tox. 4, H302 / Acute Tox. 4, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 2, H411
68604-33-1	271-685-3	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	< 5	Aquatic Chronic 3, H412

**REACH**

CAS No	Name	REACH registration number
64742-82-1	Mixture of hydrocarbons [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)]	01-2119458049-33
71-36-3	n-butanol	01-2119484630-38
556-82-1	3-Methylbut-2-en-1-ol	01-2119438442-43
1336-21-6	ammonia ....%	01-2119488876-14
68604-33-1	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	01-2120770276-50

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately and dispose it safely.

Take affected person into fresh air.

**In case of inhalation**

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

If swallowed seek medical advice immediately and show the doctor packing or label.



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

##### **Physician's information / possible symptoms**

Headache

Confusion

Dizziness

##### **Physician's information / possible dangers**

Risk of the aspiration of the lung.

In case of ingestion risk of pulmonary oedema and pneumonia.

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

##### **Treatment (Advice to doctor)**

Continue to monitor for pneumonia and pulmonary oedema.

If swallowed, flush stomach adding activated charcoal.

If swallowed or in the event of vomiting, risk of entering the lungs.

Keep under medical supervision for at least 48 hours.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

#### **Unsuitable extinguishing media**

Full water jet

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

In the event of fire the following can be released:

Carbon monoxide (CO)

Flammable vapor-air-mixture are more heavy than air. Inflammation over far distance is possible.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Do not inhale explosion and/or combustion gases.

#### **Additional information**

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

Ensure adequate ventilation.

Use personal protection.

Keep away sources of ignition.

#### **For emergency responders**

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Use personal protection.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.



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**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

**6.3. Methods and material for containment and cleaning up**

Send in suitable containers for recovery or disposal.

Take up with absorbent material (e.g. kieselguhr).

**6.4. Reference to other sections**

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid formation of aerosols.

Open and handle container with care!

Keep container tightly closed.

Provide good room ventilation even at ground level (vapours are heavier than air).

Use only in well-ventilated areas.

Use solvent-resistant equipment.

Keep limited supplies at workplace.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

Provide washing facilities at place of work.

Keep away from food and drink.

**Advice on protection against fire and explosion**

Keep away from sources of ignition

Vapours can form an explosive mixture with air.

Ignitable mixtures can be formed in the empty container.

Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Ventilate store-rooms thoroughly.

Keep only in unopened original container.

**Advice on storage compatibility**

Do not store together with oxidizing agents.

**Further information on storage conditions**

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

Keep container dry, tightly closed and store at cool and aired place.

Do not store at temperature above 25 °C (=77 °F).

Keep under lock and key or accessible only to specialists or people authorized by them.

**Information on storage stability**

Storage time: 24 months.



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**7.3. Specific end use(s)**

**Recommendation(s) for intended use**

no further

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
71-36-3	butan-1-ol	WEL, 8 hours Short-term	154	50	Sk, R10-22- 37/38-41-67

**DNEL-/PNEC-values**

**DNEL worker**

CAS No	Substance name	Value	Code	Remark
64742-82-1	Mixture of hydrocarbons [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)]	44 mg/kg bw/day	DNEL long-term dermal (systemic)	
		330 mg/m3	DNEL long-term inhalative (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
64742-82-1	Mixture of hydrocarbons [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%)]			No data available

**Additional advice**

Occupational exposure limits for mixtures of hydrocarbons.

**8.2. Exposure controls**

**Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

Multi-purpose filter ABEK

**Hand protection**

Gloves (solvent-resistant)

Glove material specification [make/type, thickness]: FKM, 0.4mm.

Glove material specification [make/type, thickness]: NBR, 0.35mm.

**Eye protection**

safety goggles

**Limitation and surveillance of the environment**

Avoid penetration into the subsoil/soil.

Do not discharge into the drains/surface waters/groundwater.

**Appropriate engineering controls**

Technical exhaustion if there is a long-term exposition



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## SECTION 9: Physical and chemical properties

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

**Appearance**

liquid

**Colour**

light beige up to light brown

**Odour**

of ammonia and solvent-like

**Odour threshold**

n-butanol: 0.012 - 150 mg/m<sup>3</sup> (0.0039 - 48.7 ppm).

3-methylbut-2-en-1-ol: < 100 ppm (< 358 mg/m<sup>3</sup>).

ammonia: 5ppm (3.5mg/m<sup>3</sup>).

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not applicable				
<b>boiling range</b>	116 - 200 °C				
<b>solidifying range</b>	< -15 °C				
<b>Flash point</b>	30 - 34 °C				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	> 200 °C				
<b>Self ignition temperature</b>					not spontaneously flammable
<b>Lower explosion limit</b>	0,6 Vol-%				
<b>Upper explosion limit</b>	ca. 7,0 Vol-%				
<b>Vapour pressure</b>	<= 7 hPa	20 °C			
<b>Relative density</b>	0,78 - 0,8 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	> 1				
<b>Solubility in water</b>					~6% are water-soluble.
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	ca. 3,2 - 7				Value of hydrocarbon components.
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	ca. 1,2 mm <sup>2</sup> /s	20 °C			
<b>Solvent content</b>	96,1 %				

**Vapourisation rate**

Mixture of hydrocarbons: 0.16 (ASTM D3539).

n-butanol: 0.44 (ASTM D3539) / 33 (DIN 53170) .



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#### **Oxidising properties**

no

#### **Explosive properties**

Not classified as explosive. Vapours can form an explosive mixture with air.

#### **9.2. Other information**

Vapours are heavier than air.

## **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No further hazardous reactions known if used as directed.

Vapours can form an explosive mixture with air.

#### **10.2. Chemical stability**

Stable at ambient temperature.

#### **10.3. Possibility of hazardous reactions**

Reactions with oxidising agents.

#### **10.4. Conditions to avoid**

Heat and direct solar radiation.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

#### **10.5. Incompatible materials**

##### **Substances to avoid**

Reactions with oxidising agents.

#### **10.6. Hazardous decomposition products**

No decomposition if used as directed.

## **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LD50 acute dermal</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LC50 acute inhalation</b>	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
<b>Skin irritation</b>	irritant			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	non-sensitizing			





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**Specific target organ toxicity (single exposure)**

Narcotic effect: STOT SE 3 H336: May cause drowsiness or dizziness.

**Specific target organ toxicity (repeated exposure)**

STOT RE 1 H372: Causes damage to central nervous system through prolonged or repeated exposure.

**Aspiration hazard**

Aspiration hazard: Asp. Tox. 1 H304: May be fatal if swallowed and enters airways.

**Toxicity test (Additional information)**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.  
benzene: < 100 ppm.

**Experiences made from practice**

Has a degreasing effect on the skin.

**! SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 10,1 mg/l		calculated	NOELR: 0,1 - 0,2 mg/l.
<b>Daphnia</b>	EC50 10,5 mg/l		calculated	NOELR: ~0,3 mg/l.
<b>Algae</b>	EC50 4,5 mg/l		calculated	

**12.2. Persistence and degradability**

<b>Physico-chemical degradability</b>	90 %	Activated charcoal adsorption	
<b>Biological degradability</b>			readily degradable

**12.3. Bioaccumulative potential**

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): Has the potential to bioaccumulate.  
n-butanol: Significant accumulation in organisms is not expected (log Pow: 0.88).  
3-methylbut-2-en-1-ol: Significant accumulation in organisms is not expected (log Pow: 0.91).  
ammonia: Accumulation in organisms is not expected.  
Fatty acids, C14-18 and C16-18-unsatd., ammonium salts: Because of the n-octanol/water partition coefficient accumulation in organisms is possible (log Pow >3).

**12.4. Mobility in soil**

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): Floats on water surface. Is adsorbed by soil and is of low mobility.  
3-methylbut-2-en-1-ol: From the water surface the substance is gradually evaporated in the atmosphere.  
Adsorption on soil is not expected.  
ammonia ...%: The ammonium ion will be adsorbed by the soil; very soluble in water.  
n-butanol: Moderately to highly mobile in soil.  
Fatty acids, C14-18 and C16-18-unsatd., ammonium salts: strong adsorption on soil, immobile.

**12.5. Results of PBT and vPvB assessment**

The product does not contain any PBT-/vPvB-substances according to the recipe.

**12.6. Other adverse effects**

No further relevant informations available.

**Additional ecological information**



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Value	Method	Remark
<b>AOX</b>		The product does not contain any organically bound halogens according to the recipe.

**General regulation**

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life.

Chronic aquatic environmental hazards: Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

**! SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste code No.**

14 06 03\*

**Name of waste**

other solvents and solvent mixtures

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**! Recommendations for the product**

Do not dispose with household waste. Do not discharge into the drains.

Remove in accordance with local official regulations.

Incinerate in suitable incineration plant, but care for official regulations.

**Recommendations for packaging**

Uncontaminated packaging may be taken for recycling.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	UN 3295	UN 3295	UN 3295
<b>14.2. UN proper shipping name</b>	HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes

**14.6. Special precautions for user**

no

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

not relevant

**Land and inland navigation transport ADR/RID**

Hazard label(s) 3

tunnel restriction code D/E

Environmentally Hazardous: not require labeling according to ADR 3.3 SP 375 for containers up to 5 litre.



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**Marine transport IMDG**

**MARINE POLLUTANT**

Marine pollutant (Environmentally Hazardous): not require labeling according to IMDG-Code 37-14, 2.10.2.7 for containers up to 5 litre.

**Air transport ICAO/IATA-DGR**

Environmentally Hazardous: not require labeling according to IATA 56th edition, A197 for containers up to 5 litre.

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**! SECTION 15: Regulatory information**

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

**Authorizations**

not relevant

**Application restrictions**

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 + 40 - not relevant if used as directed.

**Other regulations (EU)**

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: P5c + E2.

**VOC standard**

**VOC content** 96,1 %

**15.2. Chemical Safety Assessment**

For this mixture a chemical safety assessment were not carried out.

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**SECTION 16: Other information**

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.0

**Sources of key data used**

Own measurements.

European Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

- EUH066 Repeated exposure may cause skin dryness or cracking.
  - H226 Flammable liquid and vapour.
  - H290 May be corrosive to metals.
  - H302 Harmful if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H372 Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
  - H400 Very toxic to aquatic life.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
-