



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

Printed 12.10.2021

Revision 12.10.2021 (GB) Version 4.1

**Flume Technik W Watch-Cleaner**

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

**1.1. Product identifier**

**Name of product**

Flume Technik W Watch-Cleaner

UFI: UC30-W0PJ-W00P-MYWD

**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

**! Product categories [PC]**

PC35 - Washing and cleaning products

**! Process categories [PROC]**

PROC8a - Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

PROC9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC13 - Treatment of articles by dipping and pouring

**! Environmental release categories [ERC]**

ERC8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b - Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

**Uses advised against**

**! Remark**

Do not use for injecting or spraying.

**Recommended intended purpose(s)**

Cleaning concentrate for aqueous cleaning of disassembled watches and of jewellery in devices for watch and ultrasonic cleaning.

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

**Distributor**

Rudolf Flume Technik GmbH  
Hachestraße 66, D-45127 Essen  
Phone +49 (0)201 1899-0, Fax +49 (0)201 1899-100  
E-Mail [info@flume.de](mailto:info@flume.de)  
Internet [www.flume.de](http://www.flume.de)

**Advice**

Herr Rolandus: [f.rolandus@flume.de](mailto:f.rolandus@flume.de)  
Phone +49 (0)201 1899-0  
Fax +49 (0)201 1899-100

**Manufacturer**

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](mailto:info@elma-ultrasonic.com)  
Internet [www.elma-ultrasonic.com](http://www.elma-ultrasonic.com)

**Advice**

Chemie/Labor: Email: [chemlab@elma-ultrasonic.com](mailto: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
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Skin Irrit. 2	H315	Calculation method.
Eye Irrit. 2	H319	Calculation method.
STOT SE 3	H336	Calculation method.
Aquatic Chronic 3	H412	Calculation method.

#### Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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



GHS07

#### Signal word

Warning

#### Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

#### Hazardous ingredients for labelling

1-methoxy-2-propanol, ammonia ...%

### 2.3. Other hazards

Aquatic Acute 2 H401: Toxic to aquatic life.



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### Information pertaining to special dangers for human and environment

May cause respiratory irritation.

Vapours of the concentrate may cause drowsiness and dizziness.

### Results of PBT and vPvB assessment

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

## SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

Aqueous mixture with surfactants, complexing agent, ammonium hydroxide with cosolvent and dyestuff.

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
15763-76-5	239-854-6	sodium cumenesulphonate	< 5	Eye Irrit. 2, H319
164524-02-1	629-764-9	potassium cumenesulphonate	< 5	Eye Irrit. 2, H319
1336-21-6	215-647-6	ammonia ...%	< 3	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
107-98-2	203-539-1	1-methoxy-2-propanol	15 - 25	Flam. Liq. 3, H226 / STOT SE 3, H336
68604-33-1	271-685-3	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	15 - 30	Aquatic Chronic 3, H412

#### REACH

CAS No	Name	REACH registration number
15763-76-5	sodium cumenesulphonate	01-2119489411-37
164524-02-1	potassium cumenesulphonate	01-2119489427-24
1336-21-6	ammonia ...%	01-2119488876-14
107-98-2	1-methoxy-2-propanol	01-2119457435-35
68604-33-1	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	01-2120770276-50

#### Additional advice

Ingredients according to Annex VII, A, EC-Regulation 648/2004 (detergents): <5% anionic surfactants, 15-30% ammoniumsoap.

## 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 immediately with plenty of water.

Consult a doctor if skin irritation persists.



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**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.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

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

**Physician's information / possible symptoms**

No further informations available.

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

**Treatment (Advice to doctor)**

No further informations available.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

water

Alcohol-resistant foam

Carbon dioxide

Water spray jet

water mist

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

In the event of fire the following can be released:

Ammonia

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Sulphur dioxide (SO<sub>2</sub>)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Do not inhale explosion and/or combustion gases.

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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.

High risk of slipping due to leakage/spillage of product.

**For emergency responders**

Ensure adequate ventilation.

Use personal protective clothing.

Use personal protection.

Forms slippery surfaces with water.

High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

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



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

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Flush away residues with water.

After taking up the material dispose according to regulation.

### 6.4. Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Use only in thoroughly ventilated areas.

Take the usual precautions when handling with chemicals.

#### 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

No special measures necessary.

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

#### Requirements for storage rooms and vessels

Keep only in original container.

#### Advice on storage compatibility

Store cool and at distance to acids or alkalies.

#### Further information on storage conditions

Keep container tightly closed.

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

Keep in a cool place.

Do not keep at temperatures below 5 °C.

#### Information on storage stability

Storage time: 3 years.

### 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/m <sup>3</sup> ]	[ppm]	Remark
7664-41-7	ammonia	8 hours	14	20	EU
		Short-term	36	50	



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**Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)**

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
107-98-2	1-methoxy-2-propanol	8 hours	375	100	skin
		Short-term	568	150	

**DNEL-/PNEC-values**

**DNEL worker**

CAS No	Substance name	Value	Code	Remark
107-98-2	1-methoxy-2-propanol	50,6 mg/kg bw/day	DNEL long-term dermal (systemic)	
		369 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
1336-21-6	ammonia ...%	14 mg/m <sup>3</sup>	DNEL long-term inhalative (local)	
		47,6 mg/m <sup>3</sup>	DNEL long-term inhalative (systemic)	
		6,8 mg/kg	DNEL long-term dermal (systemic)	

**PNEC**

CAS No	Substance name	Value	Code	Remark
107-98-2	1-methoxy-2-propanol	100 mg/l	PNEC sewage treatment plant (STP)	
		10 mg/l	PNEC aquatic, freshwater	
1336-21-6	ammonia ...%	0,001 mg/l	PNEC aquatic, freshwater	

**8.2. Exposure controls**

**! Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation.

Breathing apparatus in the event of high concentrations.

Multi-purpose filter ABEK/P3

**Hand protection**

Gloves (alkali- and solvent-resistant)

Glove material specification [make/type, thickness, permeation time/life]: Butyl, 0,5mm, >=8h.

**Eye protection**

tightly fitting goggles

**Limitation and surveillance of the environment**

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

Neutralization is necessary before a waste water is discharged into sewage treatment plants.

**Appropriate engineering controls**

Technical exhaustion if there is a long-term exposition

**SECTION 9: Physical and chemical properties**

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

**Appearance**

liquid

**Colour**

bright red

**Odour**

of ammonia

**Odour threshold**

1-methoxy-2-propanol: 38 - 360 mg/m<sup>3</sup> (10 - 96 ppm).

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



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**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	10,6	20 °C			
<b>boiling range</b>	>= 100 °C				
<b>solidifying range</b>	<= -5 °C				
<b>Flash point</b>	> 65 °C			DIN 51755	Does not maintain the combustion.
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					not spontaneously flammable
<b>Lower explosion limit</b>	1,5 Vol-%				Value of 1-methoxy-2-propanol.
<b>Upper explosion limit</b>	13,7 Vol-%				Value of 1-methoxy-2-propanol.
<b>Vapour pressure</b>	ca. 81 hPa	20 °C			
<b>Relative density</b>	1,008 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	3,11				Value of 1-methoxy-2-propanol.
<b>Solubility in water</b>					miscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	-0,437				Value of 1-methoxy-2-propanol.
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				
<b>Solvent content</b>	< 25 Gew-%				
<b>Vapourisation rate</b>	1-methoxy-2-propanol: 0.75 (ASTM D3539). Water: 0.36 (ASTM D3539).				



**Oxidising properties**

no

**Explosive properties**

no

**9.2. Other information**

No further relevant informations available.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Evolution of heat under influence of acids.

No further hazardous reactions known if used as directed.

**10.2. Chemical stability**

No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

Reactions with strong oxidising agents.

Reactions with strong acids and alkalies.

Evolution of ammonia under influence of alkalies.

**10.4. Conditions to avoid**

Heat and direct solar radiation.

**10.5. Incompatible materials**

**Substances to avoid**

Reactions with strong acids.

Reactions with oxidising agents.

Reactions with alkalies.

**10.6. Hazardous decomposition products**

Ammonia

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**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>	irritant			





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	Value/Validation	Species	Method	Remark
<b>Skin sensitization</b>	non-sensitizing			

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

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

May cause respiratory irritation.

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

The mixture is not classified as specific target organ toxicant (repeated exposure).

**Aspiration hazard**

The mixture is not classified as aspiration hazardous.

**Toxicity test (Additional information)**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

ammonia : LD50(oral, rat): 350 mg/kg, LC50(inhalation, rat, 1h): 11.59 mg/l .

**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 5,2 mg/l		calculated	After neutralization a reduction in harmful effect can be observed.
<b>Daphnia</b>	EC50 18,1 mg/l		calculated	
<b>Algae</b>	EC50 161 mg/l		calculated	

### 12.2. Persistence and degradability

<b>Physico-chemical degradability</b>	100 %		Neutralization, pH-measurement
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<b>Biological degradability</b>	> 90 %	DOC decrease	calculated	readily degradable
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### 12.3. Bioaccumulative potential

1-methoxy-2-propanol: Accumulation in organisms is not expected.

sodium cumenesulphonate: Bioaccumulation is improbable.

potassium cumenesulphonate: Bioaccumulation is improbable.

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

1-methoxy-2-propanol: Dissolves in water. Highly mobile in soil.

sodium cumenesulphonate: Adsorption on soil is not expected.

potassium cumenesulphonate: Adsorption on soil is not expected.

ammonia ...%: The ammonium ion will be adsorbed by the soil; very soluble in water.

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.



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**Additional ecological information**

	Value	Method	Remark
<b>COD</b>	ca. 1,2 gO <sub>2</sub> /g	calculated	

**! General regulation**

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life. After neutralization: Aquatic Acute 3 H402: Harmful to aquatic life.

Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects. After neutralization: not classified as chronic hazardous to the aquatic environment.

Do not allow uncontrolled leakage of product into the environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste code No.**

20 01 30

**Name of waste**

detergents other than those mentioned in 20 01 29

**Recommendations for the product**

Do not dispose with household waste.

Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

**Recommendations for packaging**

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

**Recommended cleansing agent**

Water

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-
<b>14.6. Special precautions for user</b>			
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**

No dangerous goods as defined by these transport regulations.

**Marine transport IMDG**



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No hazardous material as defined by the prescriptions.

**Air transport ICAO/IATA-DGR**

No hazardous material as defined by the prescriptions.

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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: not mentioned.

**VOC standard**

**VOC content** 23 %

### 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: 4.0

### Sources of key data used

Own measurements.

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

Informations from our suppliers.

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.