



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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elma reinigungslösung wf

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product	elma reinigungslösung wf
Manufacturer/distributor	ELMA Hans Schmidbauer GmbH & Co KG Kolpingstr. 1-7, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266 E-Mail info@elma-germany.com Internet www.elma-germany.com
Advice	Chemie/Labor: Email: chemlab@elma-germany.com Phone +49 7731 882-287 Fax +49 7731 882-266
Emergency advice	Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: D, GB) Phone +49 761 19240

Recommended intended purpose(s)

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

! 2. HAZARDS IDENTIFICATION

! Classification

R10

N; R51/53

Xn; R65

R-phrases

10

Flammable.

51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65

Harmful: may cause lung damage if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

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

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
111-76-2	203-905-0	2-butoxyethanol	< 5	Xn R20/21/22; Xi R36/38
64742-82-1	265-185-4	mixture of hydrocarbons	90 - 100	R10; Xn R65; N R51/53

Additional advice

Cold cleaner for cleaning, removal of resists and brightening (desoxidation) of metallic precision parts.



! 4. 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.

Physician's information / possible symptoms

Dizziness

! Physician's information / possible dangers

Risk of the aspiration of the lung.
In case of ingestion risk of pulmonary oedema and pneumonia.

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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam
Dry powder
Carbon dioxide
Water spray jet

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire the following can be released:
Carbon monoxide (CO)

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.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Use personal protection.
Keep away sources of ignition.

Environmental precautions

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

Methods for cleaning up

Send in suitable containers for recovery or disposal.
Take up with absorbent material (e.g. kieselguhr).

7. HANDLING AND STORAGE

Advice on safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).
Use solvent-resistant equipment.
Keep limited supplies at workplace.

Advice on protection against fire and explosion

Keep away from sources of ignition
Vapours can form an explosive mixture with air.

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 container tightly closed and store at cool and aired place.
Keep locked up, out of reach of children
Protect from heat and direct solar radiation.
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.

! 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design

Technical exhaustion if there is a long-term exposition

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	

Respiratory protection

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

Hand protection

Gloves (solvent-resistant)
Glove material specification [make/type, thickness, permeation time/life]: FKM, 0,4mm, >=8h.

Eye protection

safety goggles

**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.

9. PHYSICAL AND CHEMICAL PROPERTIES**Form**

liquid

Colour

light beige

Odour

solvent-like

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state					not applicable
boiling range	145 - 200 °C				
solidifying range	< -15 °C				
Flash point	34 - 40 °C			DIN 51755	
Ignition temperature	> 200 °C			DIN 51794	
Autoignition					no
Lower explosion limit	0,6 %				
Upper explosion limit	8,0 %				
Vapour pressure	ca. 4 hPa	20 °C			
Density	0,788 g/cm ³	20 °C			
Solubility in water	ca. 100 mg/l	20 °C			
Viscosity 1	ca. 1,2 mm ² /s	15 °C			
Solvent concentration	96 %				
Oxidizing properties					no

10. STABILITY AND REACTIVITY**Conditions to avoid**

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

Materials to avoid

Reactions with oxidising agents.

Hazardous decomposition products

no



11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	low irritant effect - not necessary to label			
Irritability eye	low irritant - no labeling duty			
Skin sensitization	non-sensitizing			

Experiences made from practice

Has a degreasing effect on the skin.

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	90 %		Activated charcoal adsorption	

Additional ecological information

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

General regulation

Do not allow uncontrolled leakage of product into the environment.
Product is not allowed to be discharged into the ground water or aquatic environment.
Harmful to fishes and bacteria.

13. DISPOSAL CONSIDERATIONS

Waste code No.	Name of waste
14 06 03*	other solvents and solvent mixtures

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

For recycling consult manufacturer.
Material recycling possible.
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.



14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

Marine transport IMDG

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

Air transport ICAO/IATA-DGR

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

! 15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Classification

Xn Harmful
N Dangerous for the environment

R-phrases

10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.

S-phrases

16 Keep away from sources of ignition - No smoking.
2 Keep out of the reach of children.
23.3 Do not breathe vapour.
24/25 Avoid contact with skin and eyes.
47 Do not store at temperatures above 25°C.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous ingredients for labeling

mixture of hydrocarbons

VOC standard

VOC content 96 %

16. OTHER INFORMATION

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.

Sources of key data used

Own measurements.

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 10 Flammable.
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 36/38 Irritating to eyes and skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: may cause lung damage if swallowed.