



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

Product identifier

Name of product elma noble clean

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

Uses advised against

! Remark

Do not use for injecting or spraying.

Recommended intended purpose(s)

Aqueous jewellery cleaner.

Details of the supplier of the safety data sheet

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-ultrasonic.com
Internet www.elma-ultrasonic.com

Advice

Chemie/Labor: Email: chemlab@elma-ultrasonic.com
Phone +49 7731 882-287
Fax +49 7731 882-266

Emergency telephone number

Emergency advice

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

! SECTION 2: Hazards identification

Classification of the substance or mixture

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

Xi; R36
Carc. Cat. 3; R40
R43
R52/53
Repr. Cat. 3; R63

R-phrases

63	Possible risk of harm to the unborn child.
36	Irritating to eyes.
40	Limited evidence of a carcinogenic effect.
43	May cause sensitisation by skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements



Labelling according to 67/548/EEC or 1999/45/EC

Remarks for labelling

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

Xn Harmful



R-phrases

63 Possible risk of harm to the unborn child.
36 Irritating to eyes.
40 Limited evidence of a carcinogenic effect.
43 May cause sensitisation by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

! S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
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

thiourea

Other hazards

Information pertaining to special dangers for human and environment

Harmful if swallowed.

PBT/vPvB: see section 12.

! SECTION 3: Composition/ information on ingredients

Mixtures

Description

Aqueous and acid mixture with nonionic tensides, complexing agent and co-solvent.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
62-56-6	200-543-5	thiourea	5 - 10	Carc.Cat.3 R40; Repr.Cat.3 R63; Xn R22; N R51-53
7664-38-2	231-633-2	phosphoric acid	< 5	C R34
67-63-0	200-661-7	propan-2-ol	< 10	F R11; Xi R36; R67

REACH

CAS No	Name	REACH registration number
7664-38-2	phosphoric acid	01-2119485924-24
67-63-0	propan-2-ol	01-2119457558-25



! SECTION 4: First aid measures

Description of first aid measures

! General information

Remove contaminated soaked clothing immediately.

! In case of inhalation

In case of inhalation of mist seek medical advice.

In case of skin contact

In case of contact with skin wash off immediately 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.

Refer to medical treatment.

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

Rinse out mouth and give plenty of water to drink.

Most important symptoms and effects, both acute and delayed

Physician's information / possible dangers

Risk of the aspiration of the lung.

Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

No further informations available.

! SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Extinguishing media which must not be used for safety reasons

no

Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolyse products.

In the event of fire the following can be released:

Nitrogen gases (NO_x)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Sulfur oxide

Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.



! SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protection.

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

Environmental precautions

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

Methods and material for containment and cleaning up

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

Flush away residues with water.

After taking up the material dispose according to regulation.

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.

! SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Open and handle container with care!

Advice on protection against fire and explosion

The product is not combustible.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide acid-resistant floor.

Keep only in original container.

! Advice on storage compatibility

Do not store with alkalies.

! Further information on storage conditions

Keep barrel tightly closed.

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

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

Do not keep at temperatures below 5 °C.

Information on storage stability

Storage time: 5 years.

Specific end use(s)

Recommendation(s) for intended use

no further

! SECTION 8: Exposure controls/personal protection

**Control parameters****! Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
67-63-0	propan-2-ol	WEL, 8 hours	999	400	R11, 36, 67
		Short-term	1250	500	
7664-38-2	Orthophosphoric acid	WEL, 8 hours	1		R34
		Short-term	2		

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

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
7664-38-2	phosphoric acid	8 hours	1		
		Short-term	2		

! Additional advice**Exposure controls****Hand protection**

Gloves (acid-resistant)

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

Glove material specification [make/type, thickness, permeation time/life]: NBR, 0,35mm, >=8h.

Glove material specification [make/type, thickness, permeation time/life]: FKM, 0,4mm, >=8h.

Eye protection

tightly fitting goggles

Skin protection

Light protective clothing.

! General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols

Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

Wash hands before breaks and after work.

! SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Form**

liquid

Colour

transparent

Odour

of isopropanol

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	1,2	20 °C			
starts to boil	>= 78 °C				
solidifying range	not determined				
Flash point	ca. 40 °C			DIN 51755	Does not maintain the combustion.



	Value	Temperature	at	Method	Remark
Flammable solid	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	425 °C				information concern solvent
Autoignition	no				
Lower explosion limit	2 Vol-%				information concern solvent
Upper explosion limit	ca. 12 Vol-%				information concern solvent
Vapour pressure	not determined				
Density	1,022 g/cm ³	20 °C			
Rel. vapour density	2,07				Dates refer to solvent.
Solubility in water					miscible
Partition coefficient (log p_{OW})	0,05	20 °C			Dates refer to solvent.
Viscosity	not determined				
Solvent concentration	< 10 Gew-%				
! Oxidizing properties	no				
Explosive properties	no				
Other information	No further relevant informations available.				

! SECTION 10: Stability and reactivity

Reactivity

No hazardous reactions known if used as directed.

Chemical stability

Stable at ambient temperature.



Possibility of hazardous reactions

Reactions with oxidising agents.
Reactions with strong alkalies.

Conditions to avoid

Heat and direct solar radiation.

Incompatible materials

! Materials to avoid

Reactions with oxidising agents.
Corrodes aluminium.
Reactions with strong alkalies.

Hazardous decomposition products

Possible in traces: Hydrogen sulphide (H₂S).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	1750 mg/kg	rat		Value of pure thiourea.
LD50 acute dermal	> 2800 mg/kg	rabbit		Value of pure thiourea.
Irritability skin	low irritant effect			
Irritability eye	irritant			
Skin sensitization	sensitizing			

Experiences made from practice

Has a degreasing effect on the skin.
Frequent persistent contact with the skin may cause skin irritation.

! SECTION 12: Ecological information

Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 >= 100 mg/l (48 h)	Pimephales promelas		Value of pure thiourea.
Daphnia	EC50 35 mg/l (48 h)	Daphnia magna		Value of pure thiourea.
Algae	EC50 6,8 mg/l (96 h)	Scenedesmus subspicatus		Value of pure thiourea.
Bacteria	EC10 1265 mg/l (18 h)	Pseudomonas putida		Value of pure thiourea.

Persistence and degradability

Physico-chemical degradability	100 %		Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
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Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)

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elma noble clean

Elimination rate	Method of analysis	Method	Validation
Biological degradability The product is biodegradable after lengthy adaptation.			Moderately/partially biodegradable
Bioaccumulative potential not available			
Mobility in soil not available			
Results of PBT and vPvB assessment The product does not contain any PBT-/vPvB-substances according to the recipe.			
Other adverse effects No further relevant informations available.			

Additional ecological information

	Value	Method	Remark
COD	ca. 205 mgO ₂ /g	calculated	
BOD 5 d	13 mgO ₂ /g		Value of pure thiourea.
AOX	The product does not contain any organically bound halogens according to the recipe.		

! 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.
Do not allow uncontrolled leakage of product into the environment.

! SECTION 13: Disposal considerations

Waste treatment methods

Waste code No.	Name of waste
20 01 29*	detergents containing dangerous substances

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

! Recommendations for the product

Do not dispose with household waste.
Neutralize with alkalis or lime.
Remove in accordance with local 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

Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

Marine transport IMDG

No hazardous material as defined by the prescriptions.

Air transport ICAO/IATA-DGR

No hazardous material as defined by the prescriptions.

Special precautions for user

no

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

not relevant

! SECTION 15: Regulatory information

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

VOC standard

VOC content 5,3 %

Chemical Safety Assessment

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

SECTION 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.

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

Sources of key data used

Own measurements.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 11 Highly flammable.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.

R 40 Limited evidence of a carcinogenic effect.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

R 67 Vapours may cause drowsiness and dizziness.