



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

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elma clean 40 (EC 40)

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

Product identifier

Name of product elma clean 40 (EC 40)

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

Identified uses

! Sector of uses [SU]

SU20 - Health services

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 (including solvent based products)

! Process categories [PROC]

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

PROC13 - Treatment of articles by dipping and pouring

! Environmental release categories [ERC]

ERC8a - Wide dispersive indoor use of processing aids in open systems

ERC8b - Wide dispersive indoor use of reactive substances in open systems

Uses advised against

! Remark

Do not use for injecting or spraying.

Recommended intended purpose(s)

Aqueous acid cleaning concentrate for the removal of cement from dental instruments.

Details of the supplier of the safety data sheet

Manufacturer/distributor

ELMA Hans Schmidbauer GmbH & Co KG
Kolpingstr. 1-7, D-78224 Singen (Htwl.)
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E-Mail info@elma-ultrasonic.com
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Advice

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

C; R34

R-phrases

34 Causes burns.

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.

C Corrosive



R-phrases

34 Causes burns.

S-phrases

1/2 Keep locked up and out of the reach of children.
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.
37/39 Wear suitable gloves and eye/face protection.
46 If swallowed, seek medical advice immediately and show this container or label.

Hazardous ingredients for labeling

phosphoric acid

Other hazards

not relevant

PBT/vPvB: see chapter 12.

! SECTION 3: Composition/ information on ingredients

Mixtures

Description

Aqueous concentrate with phosphoric acid and salts.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
7664-38-2	231-633-2	phosphoric acid	15 - 30	C R34

REACH

CAS No	Name	REACH registration number
7664-38-2	phosphoric acid	01-2119485924-24



! SECTION 4: First aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

! 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 plenty of 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.

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 symptoms

No further informations available.

Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.

! SECTION 5: Firefighting measures

Extinguishing media

! Suitable extinguishing media

water

Product does not burn, fire-extinguishing activities according to surrounding.

Extinguishing media which must not be used for safety reasons

no

Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

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.



Environmental precautions

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

Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).
Neutralize with sodium carbonate or slaked lime.
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.

! SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Use only acid-proof equipment.
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 unopened original container.

Advice on storage compatibility

Do not store with 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.
Store in a dry place.
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

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

CAS No	Name	Code	[mg/m ³]	[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.

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

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

Eye protection

tightly fitting goggles

! 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.

! Limitation and surveillance of the environment

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

! SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form

liquid

Colour

light yellow

Odour

almost odourless

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	0,6	20 °C			
starts to boil	>= 100 °C				
solidifying range	<= -5 °C				
Flash point					not applicable
Flammable solid	not applicable				
Flammability (gas)	not applicable				
Ignition temperature					not applicable
Autoignition					no
Lower explosion limit					not relevant
Upper explosion limit					not relevant
Vapour pressure	not determined				
Density	1,182 g/cm3	20 °C			
Rel. vapour density	not available				



	Value	Temperature	at	Method	Remark
Solubility in water					miscible
Partition coefficient (log p_{OW})					No informations available.
Viscosity	not determined				
Solvent concentration	0 %				
Oxidizing properties	no				
Explosive properties	no				
Other information	No further relevant informations available.				

! SECTION 10: Stability and reactivity

Reactivity

No further hazardous reactions known if used as directed.
Exothermic reaction with alkalies.

Chemical stability

Stable at ambient temperature.

Possibility of hazardous reactions

Reactions with alkalies.

Conditions to avoid

Heat and direct solar radiation.

Incompatible materials

Materials to avoid

Reactions with alkalies.

Hazardous decomposition products

No decomposition if used as directed.

! SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat	calculated	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
Irritability skin	corrosive			



	Value/Validation	Species	Method	Remark
Irritability eye	corrosive			
Skin sensitization	no			
! Toxicity test (Additional information)				
phosphoric acid : LD50(oral, rat): 1530 mg/kg, LD50(dermal, rabbit): 2740 mg/kg .				

! SECTION 12: Ecological information

Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 12,5 mg/l		calculated	
Daphnia	EC50 370 mg/l		calculated	
Algae	EC50 325 mg/l		calculated	

Persistence and degradability

Physico-chemical degradability	100 %		Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
Biological degradability			not applicable	

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

! General regulation

Harmful to aquatic life.

Do not allow uncontrolled leakage of product into the environment.

! SECTION 13: Disposal considerations



Waste treatment methods

Waste code No.

20 01 14*

Name of waste

acids

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.

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

Neutralize with alkalies or lime.

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

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)

! Marine transport IMDG

UN 1805 PHOSPHORIC ACID SOLUTION, 8, III

Air transport ICAO/IATA-DGR

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

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 0 %

Chemical Safety Assessment

For this mixture a chemical safety assessment was 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 34 Causes burns.