



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

1.1. Product identifier

Name of product elma super clean

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

! Recommended intended purpose(s)

Aqueous cleaning concentrate containing ammonia for jewelry cleaning.
This data sheet holds beginning from lot-No. 01, week 07, 2013.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor ELMA Hans Schmidbauer GmbH & Co KG
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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 67/548/EEC or 1999/45/EC

Additional hints

The product is not classified as dangerous according to Directives 67/548/EEC or 1999/45/EC.

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

! Additional hints

The product is not classified as dangerous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

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

! Special rules for supplemental label elements for certain mixtures

Safety data sheet available on request.

2.3. Other hazards

Aquatic Acute 3 H402: Harmful to aquatic life.

! 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 of anionic and nonionic tensides, corrosion inhibitors, complexing agent, ammonia, dye and propan-2-ol.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
61827-42-7		fattyalcoholethoxylate	< 5	Xn R22; Xi R41
69011-36-5		isotridecanol, ethoxylated	< 5	Xi R41
67-63-0	200-661-7	propan-2-ol	5 - 15	F R11; Xi R36; R67
1336-21-6	215-647-6	ammonia%	< 1	C R34; N R50

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
61827-42-7		fattyalcoholethoxylate	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
69011-36-5		isotridecanol, ethoxylated	< 5	Eye Dam. 1, H318
67-63-0	200-661-7	propan-2-ol	5 - 15	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
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 / Aquatic Chronic 2, H411

REACH

CAS No	Name	REACH registration number
61827-42-7	fattyalcoholethoxylate	Not relevant (polymer).
69011-36-5	isotridecanol, ethoxylated	Not yet known.
67-63-0	propan-2-ol	01-2119457558-25
1336-21-6	ammonia%	01-2119488876-14

! Additional advice

Ingredients according to Annex VII D of the Regulation (EC) No 648/2004 on detergents: aqua, isopropyl alcohol, triethanolamine, isotridecanol ethoxylated, tall oil acid, isodecanol ethoxylated, trisodium dicarboxymethyl alaninate, ammonia, benzotriazole, parfum, colorant.

! SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact

In case of contact with skin wash off with water.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Do not induce vomiting.

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

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.

! SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

water

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

Alcohol-resistant foam

Dry powder

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Ammonia

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

! SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protection.

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.

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

Care for thoroughly room ventilation.

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

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.

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: 5 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/m3]	[ppm]	Remark
67-63-0	propan-2-ol	WEL, 8 hours Short-term	999 1250	400 500	R11, 36, 67

8.2. Exposure controls

Eye protection

safety goggles

! Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

liquid

Colour

yellowish

Odour

of ammonia

! Odour threshold

ammonia: 5ppm (3.5mg/m3).
propan-2-ol: 2.5 - 490 mg/m3.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	10,4	20 °C			



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 30.07.2013

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elma super clean

	Value	Temperature	at	Method	Remark
starts to boil	80 °C				
solidifying range	-5 °C				
Flash point	36,5 °C			DIN EN ISO 13736	Does not maintain the combustion.
Flammable solid	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Autoignition					no
Lower explosion limit	2 Vol-%				Value of propan-2-ol.
Upper explosion limit	ca. 12 Vol-%				Value of propan-2-ol.
Vapour pressure	ca. 50 hPa	20 °C			
Relative density	0,99 - 1 g/cm ³	20 °C			
Vapour density	2,07				Value of propan-2-ol.
Solubility in water					miscible
Partition coefficient (log p_{OW})	0,05				Value of propan-2-ol.
Viscosity	not determined				
Solvent concentration	5 - 15 %				

! Vapourisation rate

propan-2-ol: 1.5 (ASTM D3539).

Water: 0.36 (ASTM D3539).

Oxidising properties

no

Explosive properties

no

9.2. Other information

No further relevant informations available.



! SECTION 10: Stability and reactivity

10.1. Reactivity

No further hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalies.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Materials to avoid

Reactions with strong acids and alkalies.

10.6. Hazardous decomposition products

No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
LC50 acute inhalation	> 50 mg/l ()		ATE (acute toxicity estimate)	
Irritability skin	non-irritant			
Irritability eye	low irritant - no labeling duty	rabbit eye	OECD 405	
Skin sensitization	non-sensitizing			

! Specific target organ toxicity (single exposure)

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

! 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.

Cleaning products may contribute to the aspiration hazard if they are swallowed and enter airways.

! Toxicity test (Additional information)

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

Experiences made from practice

Has a degreasing effect on the skin.



! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 25 mg/l		calculated	
Daphnia	EC50 38 mg/l		calculated	
Algae	EC50 39,1 mg/l		calculated	

12.2. Persistence and degradability

Biological degradability	> 80 %	DOC decrease	calculated	readily degradable
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12.3. Bioaccumulative potential

propan-2-ol: Accumulation in organisms is not expected (log Pow: 0.05).

ammonia: Accumulation in organisms is not expected.

12.4. Mobility in soil

propan-2-ol: Dissolves in water. Highly mobile in soil.

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

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

	Value	Method	Remark
COD	448 mgO2/g	calculated	
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.

Harmful to aquatic life.

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

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

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

VOC standard

VOC content 5-15 %

15.2. 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 41 Risk of serious damage to eyes.
- R 50 Very toxic to aquatic organisms.
- R 67 Vapours may cause drowsiness and dizziness.

- H225 Highly 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.