

No. 1907/2006 (REACH) Printed 24.04.2014

05.03.2014 (GB) Version 2.7 revision

elma clean 70 (EC70)

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

1.1. Product identifier

Name of product elma clean 70 (EC70)

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

! Recommended intended purpose(s)

This data sheet holds beginning from lot-No. 06, week 10, 2014.

Universal alkaline cleaning concentrate.

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

Vergiftungs-Informations-Zentrale Freiburg **Emergency advice**

> (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

Xi: R38 Xi; R41 R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

2.2. Label elements

Labelling according to 1999/45/EC

Remarks for labelling

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

Irritant



R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

S-phrases

Keep out of the reach of children.



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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.

2.3. Other hazards

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 alkaline mixture from anionic and amphoteric surfactants, sodium trioxosilicate and complexing agents.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC	
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	5 - 15	Xi R36/38; R52/53	
68155-09-9	268-938-5	Cocosfatty acid amidopropyldimethylaminoxide	< 5	Xi R38-41; N R51/53	
6834-92-0	229-912-9	disodium metasilicate	< 5	C R34; Xi R37	
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - 15	Xi R36	
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]	
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	5 - 15	Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Aquatic Chronic 3, H412	
68155-09-9	268-938-5	Cocosfatty acid amidopropyldimethylaminoxide	< 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 2, H411	
6834-92-0	229-912-9	12-9 disodium metasilicate < 5 Acute Tox. 4, H H314 / Eye Dam		Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335	
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - 15	Eye Irrit. 2, H319	
REACH					
CAS No	Name			REACH registration number	
111798-26-6	•	G-ether ester of phosphoric acid		Not yet known.	
68155-09-9	Cocosfatty acid amidopropyldimethylaminoxide			Not yet registered (ECHA).	
6834-92-0	disodium me		01-2119449811-37		
7320-34-5	tetrapotassiu	ım pyrophosphate		01-2119489369-18	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

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.

Call for a doctor 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)

Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

Unsuitable extinguishing media

no

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:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Silicon dioxide

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

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.

Do not discharge into the subsoil/soil.

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.



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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

Open and handle container with care!

General protective measures

Avoid contact with eyes and skin

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.

Advice on storage compatibility

Do not store with acids.

Further information on storage conditions

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

Do not keep at temperatures below -5 ℃.

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

Additional advice

Occupational exposure limits: not relevant.

8.2. Exposure controls

Hand protection

Gloves (alkali-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]: NR, 0,5mm.

Eve protection

tightly fitting goggles

! Limitation and surveillance of the environment

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

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

FormColourOdourliquidyellowish up to beigemild

Odour threshold not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 13	20 ℃			
starts to boil	> 100 °C				
solidifying range	< -5 ℃				
Flash point					No flash point below 100 ℃.
Flammable solid	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Autoignition					no
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	ca. 23 hPa	20 ℃			
Relative density	1,132 g/cm3	20 ℃			
Vapour density	not available				
Solubility in water					miscible
Partition coefficient (log pOW)	ca2				Value of tetrapotassium pyrophosphate
Viscosity	not determined				
Solvent concentration	0 %				

Vapourisation rate

Water: 0.36 (ASTM D3539).

Oxidising properties

no

Explosive properties

no



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9.2. Other information

No further relevant informations available.

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

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with acids.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Materials to avoid

Reactions with acids.

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	rat	calculated	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
Irritability skin	irritant			
Irritability eye	irritant - risk of strong eye injuries			
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.



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! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

ECOLOXICOIO	Value	Species	Method	Validation
Fish	LC50 114 mg/l		calculated	
Daphnia	EC50 433 mg/l		calculated	
Algae	EC50 115 mg/l		calculated	

12.2. Persistence and degradability

Physico-chemical
degradability100 %Neutralization, pH-
measurementAlkaline properties can be
eliminated up to 100% by
neutralization.

Biological > 70 % DOC decrease Biodegradable

degradability

12.3. Bioaccumulative potential

disodium metasilicate: Accumulation in organisms is not expected. tetrapotassium pyrophosphate: Bioaccumulation is improbable.

12.4. Mobility in soil

not available

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

Additional ecological init	Value	Method	Remark
COD	165 mg/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.

Do not allow uncontrolled leakage of product into the environment.

!SECTION 13: Disposal considerations

13.1. 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.

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.



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Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot 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

nο

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 0 %

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 34 Causes burns.

R 36 Irritating to eyes.

R 36/38 Irritating to eyes and skin.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

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

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.