

No. 1907/2006 (REACH) Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

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

1.1. Product identifier

Name of product elma clean 65 (EC 65)

1.2. 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

! Recommended intended purpose(s)

Neutral cleaning concentrate with corrosion inhibitor for laboratory and workshop.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Elma Schmidbauer GmbH

Gottlieb-Daimler-Str. 17, 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

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

Xi; R41

R-phrases

41 Risk of serious damage to eyes.

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

Hazard classes and Hazard

Hazard Statements Classification procedure

categories

Eye Dam. 1 H318 Bridging principle ' Substantially similar mixtures.'

Hazard Statements

H318 Causes serious eye damage.

2.2. Label elements



No. 1907/2006 (REACH) Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

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



GHS05

! Signal word

Danger

Hazard Statements

H318 Causes serious eye damage.

Precautionary Statements

P102 Keep out of reach of children.

P280 Wear eye protection/face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P330 + IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P331

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

! Hazardous ingredients for labeling

isotridecanol, ethoxylated, Sulfonic acids, C14-17-sec-alkane, sodium salts

2.3. Other hazards

Acute Tox. 5 (oral) H303: May be harmful if swallowed.

Skin Irrit. 3 H316: Causes mild skin irritation.

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 mildly alkaline mixture of anionic and nonionic surfactants, phosphates, corrosion inhibitor, complexing agents and cosolvent.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5	Xn R22; Xi R41
68920-66-1		fatty alkohol-PEG-ether	5 - 15	Xn R22; Xi R36
67-63-0	200-661-7	propan-2-ol	< 5	F R11; Xi R36; R67
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 15	Xn R22; Xi R38-41



No. 1907/2006 (REACH) Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
69011-36-5 68920-66-1	931-138-8	isotridecanol, ethoxylated fatty alkohol-PEG-ether	< 5 5 - 15	Acute Tox. 4, H302 / Eye Dam. 1, H318 Acute Tox. 4, H302 / Eye Irrit. 2, H319
67-63-0	200-661-7	propan-2-ol	< 5	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 15	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318
REACH				
CAS No	Name			REACH registration number
69011-36-5 68920-66-1 67-63-0 97489-15-1	fatty alkohol-PEG-ether propan-2-ol			Not relevant (polymer). Not relevant (polymer). Not yet available from supplier. 01-2119489924-20

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.

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.

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)

If swallowed or in the event of vomiting, risk of entering the lungs.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry powder



No. 1907/2006 (REACH) Printed 17.02.2019

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

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)

Sulfur oxide

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

For non-emergency personnel

Use personal protection.

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

! For emergency responders

Use personal protective clothing.

Use personal protection.

Forms slippery surfaces with water.

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

6.2. Environmental precautions

Do not discharge into 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.

After taking up the material dispose according to regulation.

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

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.



No. 1907/2006 (REACH) Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

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.

Do not keep at temperatures above 35℃.

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	999	400	R11, 36, 67
		Short-term	1250	500	

Additional advice

Occupational exposure limits for propan-2-ol.

8.2. Exposure controls

Eye protection

tightly fitting 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

AppearanceColourOdourliquidyellowishmild

Odour threshold

propan-2-ol: 2.5 - 490 mg/m3 (1 - 196 ppm).

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 7	20 ℃			
starts to boil	> 100 °C				
solidifying range	< -5 ℃				
Flash point	59 ℃			DIN EN ISO 13736	Does not maintain the combustion.



No. 1907/2006 (REACH) Printed 17.02.2015

12.02.2015 (GB) Version 2.7 revision

elma clean 65 (EC 65)

	Value	Temperature	at	Method	Remark
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	2 Vol-%				Value of propan-2-ol.
Upper explosion limit	ca. 12 Vol-%				Value of propan-2-ol.
Vapour pressure	23 - 42 hPa	20 ℃			
Relative density	1,04 g/cm3				
Vapour density	2,07				Value of propan-2-ol.
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	0,24				Value of Sulfonic acids, C14-17-sec- alkane, sodium salts.
Decomposition temperature	>= 100 °C				
Viscosity	not determined				
Solvent concentration	< 5 %				
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.



No. 1907/2006 (REACH) Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with concentrated acids and alkalies above 50 ℃.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Materials to avoid

Reactions with concentrated acids and alkalies above 50 ℃.

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	4451 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)	vapours
Irritability skin	mediocre irritant			
Irritability eye	risk of strong eye injuries			
Skin sensitization	The mixture is not classified as skin sensitiser.			

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.

Toxicity test (Additional information)

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



No. 1907/2006 (REACH)
Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

Experiences made from practice

Has a degreasing effect on the skin.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

Lootoxiooid	Value	Species	Method	Validation
Fish	LC50 13,6 mg/l		calculated	
Daphnia	EC50 16,5 mg/l		calculated	
Algae	EC50 17 mg/l		calculated	

12.2. Persistence and degradability

Biological > 85 % DOC decrease calculated readily degradable **degradability**

12.3. Bioaccumulative potential

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

isotridecanol, ethoxylated: Bioaccumulation is improbable.

Sulfonic acids, C14-17-sec-alkane, sodium salts: Accumulation in organisms is not expected (log Pow: 0.24).

fatty alkohol-PEG-ether: not available.

12.4. Mobility in soil

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

isotridecanol, ethoxylated: Koc: >5000, immobile, strong adsorption on soil. Sulfonic acids, C14-17-sec-alkane, sodium salts: Moderate adsorption on soil.

fatty alkohol-PEG-ether: 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

, lautional obological in	Value	Method	Remark
COD	ca. 620 mgO2/g	calculated	
AOX	The product does not	contain any organically bou	and 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.

Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.

The mixture is not classified as chronic hazardous to the aquatic environment.

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 2008/98/EC on hazardous waste.



No. 1907/2006 (REACH)
Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

! 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.

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

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	S -	-	-

14.6. Special precautions for user

no

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

not relevant

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.

! SECTION 15: Regulatory information

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

! Authorizations

not relevant

! Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3+40 - not relevant if used as directed.

! Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard

VOC content

<=3 %



No. 1907/2006 (REACH)
Printed 17.02.2015

revision 12.02.2015 (GB) Version 2.7

elma clean 65 (EC 65)

15.2. Chemical Safety Assessment

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

! SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

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. Previous version: 2.6

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 36 Irritating to eyes.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.

H225	Highly flammable liquid and vapour.
------	-------------------------------------

H302 Harmful if swallowed.H315 Causes skin irritation.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.