



elma super clean

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

1.1 Product identifier

Trade name/designation elma super clean
Unique Formula Identifier UFI: QJ40-00C4-600M-WS29

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Process categories [PROC]

PROC8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC13 Treatment of articles by dipping and pouring

Environmental release categories [ERC]

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

Product Categories [PC]

PC35 Washing and cleaning products

Use of the substance/mixture

Aqueous cleaning concentrate containing ammonia for jewelry cleaning.

1.3 Details of the supplier of the safety data sheet

Supplier

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
Website www.elma-ultrasonic.com

Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

1.4 Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, +49 761 19240
EN)

* SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Remark

The product is not classified as dangerous according to Regulation (EC) 1272/2008 [GHS].
Classification procedure for serious eye damage/eye irritation: Bridging principle 'Substantially similar mixtures.'

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures
EUH210 Safety data sheet available on request.

Other labelling

Labelling for contents according to regulation (EC) No. 648/2004:
< 5% anionic surfactants
< 5% non-ionic surfactants
perfumes



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

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* 2.3 Other hazards

* Adverse human health effects and symptoms

The product does not contain any substances with endocrine-disrupting properties $\geq 0.1\%$.

* Adverse environmental effects

Aquatic Acute 3 H402: Harmful to aquatic life.

The product does not contain any substances with endocrine-disrupting properties $\geq 0.1\%$.

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

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
67-63-0	200-661-7	603-117-00-0	propan-2-ol	5 - 15 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	
26183-52-8			decan-1-ol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	
102-71-6	203-049-8		triethanolamine [2,2',2''-nitrilotriethanol]	< 5 weight-%		
69011-36-5	931-138-8		isotridecanol, ethoxylated	< 5 weight-%	Eye Dam. 1; H318 Aquatic Chronic 3; H412	
1336-21-6	215-647-6	007-001-01-2	ammonia ...%	< 1 weight-%	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	STOT SE 3; H335: C \geq 5% M=1 (Aquatic Acute 1)

REACH No.	Substance name
01-2119457558-25	propan-2-ol
Not relevant (polymer).	decan-1-ol, ethoxylated
01-2119486482-31	triethanolamine [2,2',2''-nitrilotriethanol]
Not relevant (polymer).	isotridecanol, ethoxylated
01-2119488876-14	ammonia ...%

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Following skin contact

In case of contact with skin wash off with water.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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Following ingestion

Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.
Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No further informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

No further informations available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water
alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
Ammonia (NH₃)
Nitrogen oxides (NO_x)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not inhale explosion and combustion gases.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders

Ensure adequate ventilation.
Personal protection equipment
Use personal protection.
Forms slippery surfaces with water.
Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.



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6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:
Sand
Sawdust
Universal binder
Kieselguhr
Flush away residues with water.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Care for thoroughly room ventilation.
Take the usual precautions when handling with chemicals.
Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin.
The product is not combustible.

Advices on general occupational hygiene

Make available sufficient washing facilities
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

Further information on storage conditions

Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Keep in a cool, well-ventilated place.
Do not keep at temperatures below -5°C.
Storage time: 5 years.

7.3 Specific end use(s)

Recommendation

no further

*** SECTION 8: Exposure controls/personal protection**

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
67-63-0	200-661-7	Propan-2-ol	200 [ml/m ³ (ppm)] Short-term(ml/m ³) 400 (1) (1) 15 minutes reference period (IE)
102-71-6	203-049-8	Triethanolamine	5 [mg/m ³] (IE)
67-63-0	200-661-7	Propan-2-ol	400 [ml/m ³ (ppm)] 999 [mg/m ³] Short-term(ml/m ³) 500 Short-term(mg/m ³) 1250 (UK)



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DNEL worker

CAS No	Substance name	DNEL value	DNEL type	Remark
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	7.5 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 50
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	1 mg/m ³	long-term inhalative (local)	
1336-21-6	ammonia ...%	6.8 mg/kg	long-term dermal (systemic)	Assessment factor 10
1336-21-6	ammonia ...%	14 mg/m ³	long-term inhalative (local)	
1336-21-6	ammonia ...%	47.6 mg/m ³	long-term inhalative (systemic)	Assessment factor 10
67-63-0	propan-2-ol	888 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 1
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	Assessment factor 1

PNEC

CAS No	Substance name	PNEC Value	PNEC type	Remark
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	0.32 mg/L	aquatic, freshwater	Assessment factor 50
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	10 mg/L	sewage treatment plant (STP)	Assessment factor 100
1336-21-6	ammonia ...%	0.001 mg/L	aquatic, freshwater	Assessment factor 20

8.2 Exposure controls

Personal protection equipment

Eye/face protection
safety goggles

Environmental exposure controls

Technical measures to prevent exposure
Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

Additional information

Occupational exposure limits for triethanolamine.

*** SECTION 9: Physical and chemical properties**

*** 9.1 Information on basic physical and chemical properties**

Physical state
liquid

Colour
yellowish

Odour
like:
Ammonia

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			ammonia: 5ppm (3.5mg/m3).
Odour threshold:			propan-2-ol: 2.5 - 490 mg/m3 (1 - 196 ppm).
Melting point/freezing point	solidifying range -5 °C		



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	Value	Method	Source, Remark
Boiling point or initial boiling point and boiling range	80 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit approx. 12 Vol-%		Value of propan-2-ol.
Lower and upper explosion limit	Lower explosion limit 2 Vol-%		Value of propan-2-ol.
Flash point	36.5 °C	DIN EN ISO 13736	Does not maintain the combustion.
Auto-ignition temperature	324 °C		Value of triethanolamine.
Decomposition temperature			not determined
pH	in delivery state 10.4 (20°C)		
Viscosity	dynamic 2.5 mPa*s (20°C)		
Viscosity	kinematic 2.5 mm ² /s (20°C)	calculated.	
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	0.05		Value of propan-2-ol.
Vapour pressure	approx. 50 hPa (20°C)		
Density and/or relative density	0.99- 1 g/cm ³ (20°C)		
Relative vapour density	2.07		Value of propan-2-ol.
particle characteristics			not applicable (liquid).

9.2 Other information

Information with regard to physical hazard classes

Explosives

Assessment/classification

The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).

CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

flammable gases

Assessment/classification

not applicable (liquid).

Aerosols

Assessment/classification

not relevant - no aerosol.

The classification criteria for this hazard class are not met by definition.

Oxidising gas

Assessment/classification

not applicable (liquid).

Gases under pressure

Assessment/classification

not applicable (liquid, no dissolved gas under pressure).



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flammable liquids

Assessment/classification

Flash point > 35 °C, does not maintain the combustion.
The mixture is not classified as flammable liquids.

flammable solids

Assessment/classification

not applicable (liquid).

Self-reactive substances and mixtures

Assessment/classification

The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

Pyrophoric liquids

Assessment/classification

The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

Pyrophoric solids

Assessment/classification

not applicable (liquid).

self-heating substances and mixtures

Assessment/classification

The mixture does not contain any self-heating substances.

Substances or mixtures which, in contact with water, emit flammable gases

Assessment/classification

not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

Oxidising liquids

Assessment/classification

The mixture does not contain any oxidising substances.

Oxidising solids

Assessment/classification

not applicable (liquid).

Organic peroxides

Assessment/classification

The mixture does not contain any organic peroxides.

Corrosive to metals

Safety characteristics

	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	< 6.25 mm/a	Expert judgement and weight of evidence determination.	
Corrosion rate (mm steel/year)	< 6.25 mm/a	Expert judgement and weight of evidence determination.	



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Assessment/classification

Based on available data, the classification criteria are not met.

Desensitised explosives

Assessment/classification

The mixture does not contain any desensitised explosive substances.

Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate			Water: 0.36 (ASTM D3539), propan-2-ol: 1.5 (ASTM D3539) / 11 (DIN 53170) .
Solvent content	5- 15 %		
Explosive properties			none
Oxidising properties			none

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

Reactions with strong acids and alkalies.

10.6 Hazardous decomposition products

Possible in traces: Ammonia.

*** SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No1336-21-6 ammonia ...%		
	LD50: 350 mg/kg		
	Species Rat		
	CAS No26183-52-8 decan- 1-ol, ethoxylated		
	LD50: 500- 2000 mg/kg		
	Species Rat		



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	Effective dose	Method, Evaluation	Source, Remark
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour) > 50 mg/L CAS No67-63-0 propan-2-ol Acute inhalation toxicity (vapour) LC50: 72.6 mg/L Species Rat Exposure time 4 h CAS No1336-21-6 ammonia ...% Acute inhalation toxicity (vapour) LC50: 11.59 mg/L Species Rat Exposure time 1 h	ATE: Acute Toxicity Estimate	

Assessment/classification

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.	Calculation method.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
slightly irritant but not relevant for classification.	Bridging principle "Substantially similar mixtures".	

Sensitisation to the respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.		Calculation method.	

Germ cell mutagenicity

Assessment/classification

Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment/classification

Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment/classification

Based on available data, the classification criteria are not met.

Overall Assessment on CMR properties

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



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STOT-single exposure

STOT SE 1 and 2

Assessment/classification

The mixture is not classified as specific target organ toxicant (single exposure).
Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Narcotic effects

Assessment/classification

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Assessment/classification

The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.

*** Aspiration hazard**

Assessment/classification

The mixture is not classified as aspiration hazardous.
Based on available data, the classification criteria are not met.

*** Remark**

propan-2-ol: Asp. Tox. 2 H305: May be harmful if swallowed and enters airways.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			The product does not contain any substances with endocrine-disrupting properties >=0.1%.

Other information

Test on similar mixture (elma super clean, Batch 0209020709): OECD 405(rabbit): not irritating to eyes.
Has degreasing effect on the skin.

*** SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 24.7 mg/L CAS No1336-21-6 ammonia ...% LC50: 0.16- 1.1 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	calculated.	
	CAS No69011-36-5 isotridecanol, ethoxylated LC50: >1- 10 mg/L Species Leuciscus idus (golden orfe) Test duration 96 h	DIN 38412 / part 15	



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) fish toxicity	CAS No1336-21-6 ammonia ...% NOEC 0.022 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 73 d		
Acute (short-term) toxicity to crustacea	CAS No69011-36-5 isotridecanol, ethoxylated NOEC 1.73 mg/L	EC50 37.1 mg/L	calculated.
	CAS No1336-21-6 ammonia ...% EC50 2.94 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	CAS No1336-21-6 ammonia ...% NOEC 0.79 mg/L Species Daphnia magna (Big water flea) Test duration 96 h		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No69011-36-5 isotridecanol, ethoxylated NOEC 1.36 mg/L	EC50 38.3 mg/L	calculated.
	CAS No1336-21-6 ammonia ...% EC50 330 mg/L Species Chlorella vulgaris Test duration 5 d		
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Scenedesmus subspicatus Test duration 72 h		DIN 38412 / part 9
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No69011-36-5 isotridecanol, ethoxylated NOEC: 0.6 mg/L		
	CAS No69011-36-5 isotridecanol, ethoxylated NOEC: >0.1- 1 mg/L Species Skeletonema costatum Test duration 72 h		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification
Harmful to aquatic life.



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12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 80 %	calculated.	DOC reduction Readily biodegradable (according to OECD criteria).
Biodegradation	Degradation rate 96 % Test duration 19 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No102-71-6 triethanolamine [2,2',2''- nitritriethanol]
Biodegradation	Degradation rate > 60 %	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No26183-52-8 decan- 1-ol, ethoxylated
Biodegradation	Degradation rate ≥ 90 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No26183-52-8 decan- 1-ol, ethoxylated
Biodegradation	Degradation rate 95 % Test duration 21 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No67-63-0 propan-2- ol
Biodegradation			CAS No1336-21-6 ammonia ...% The methods for determining the biological degradability are not applicable to inorganic substances.
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No69011-36-5 isotridecanol, ethoxylated
Biodegradation	Degradation rate > 90 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No69011-36-5 isotridecanol, ethoxylated

12.3 Bioaccumulative potential

Assessment/classification

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

decan-1-ol, ethoxylated: not available.

triethanolamine: Accumulation in organisms is not expected (BCF: <0,4).

isotridecanol, ethoxylated: Bioaccumulation is improbable.

ammonia: Accumulation in organisms is not expected.

12.4 Mobility in soil

Assessment/classification

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

decan-1-ol, ethoxylated: not available.

triethanolamine: Adsorption on soil is not expected (Koc: 10).

isotridecanol, ethoxylated: strong adsorption on soil, immobile.

ammonia ...%: The ammonium ion will be 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 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			The product does not contain any substances with endocrine- disrupting properties >=0.1%.



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12.7 Other adverse effects

	Value	Method	Source, Remark
Ozone depletion potential (ODP):			Based on available data, the classification criteria are not met.

Additional ecotoxicological information

	Value	Method	Source, Remark
Chemical oxygen demand (COD)	448 mgO ₂ /g	calculated.	
AOX			The product does not contain any organically bound halogens according to the recipe.

Additional information

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 discharge of product into the environment.

No further relevant informations available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
200130	detergents other than those mentioned in 20 01 29

Appropriate disposal / 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.

Appropriate disposal / Package

Non-contaminated packages may be recycled.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant



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Land transport (ADR/RID)

Remark

Not classified for this transport carrier.

Sea transport (IMDG)

Remark

No hazardous material as defined by the prescriptions.

Air transport (ICAO-TI / IATA-DGR)

Remark

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**

*** EU legislation**

Authorisations

not relevant

Restrictions on use

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

*** Other regulations (EU)**

*** To follow:**

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

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

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, delivery state 5- 15 %

15.2 Chemical Safety Assessment

National regulations

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



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*** SECTION 16: Other information**

*** Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: American Society for Testing and Materials

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

DIN: German Institute for Standardization / German Industrial Standard

DNEL: derived no-effect level

DOC: Dissolved Organic Carbon

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

ISO: International Organization for Standardization

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

RID: Dangerous goods regulations for transport by rail

TI: Technical Instruction

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Flam. Liq. 2: Flammable Liquids, Category 2

Met. Corr. 1: Corrosive to metals, Category 1

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4

Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4

Skin Corr. 1B: Skin corrosion, Sub-category 1B

Eye Dam. 1: Serious eye damage, Category 1

Eye Irrit. 2: Eye irritation, Category 2

STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3

STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)

Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

Key literature references and sources for data

Own measurements.

European Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

Additional information

National and local regulations concerning chemicals shall be observed.

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.

Relevant H- and EUH-phrases (Number and full text)

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.
H412	Harmful to aquatic life with long lasting effects.



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

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Indication of changes

* Data changed compared with the previous version