



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

elma lab clean A20sf (ELC A20sf)

Print date 02.12.2022
Revision date 29.09.2022
Version 1.4 (en)
replaces version of 17.04.2019 (1.3)

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

*** 1.1 Product identifier**

Trade name/designation elma lab clean A20sf (ELC A20sf)
Unique Formula Identifier UFI: FM30-E0RR-U006-M0NK
Product category PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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]

PROC7 Industrial spraying
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
PROC11 Non industrial spraying

Environmental release categories [ERC]

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Product Categories [PC]

PC35 Washing and cleaning products

Use of the substance/mixture

Aqueous cleaning concentrate without surfactants.

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

*** SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Skin Irrit. 2, H315	Calculation method.
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Eye Irrit. 2, H319	Calculation method.
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Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.



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* **2.2 Label elements**

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

Hazard pictograms



GHS07

Signal word

Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P233 Keep container tightly closed.
P261 Avoid breathing gas/mist/vapours/spray.
P280 Wear protective gloves/eye protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

* **Other labelling**

Labelling for contents according to regulation (EC) No. 648/2004:
5 - 15% phosphates
5 - 15% polycarboxylates

* **2.3 Other hazards**

* **Adverse human health effects and symptoms**

Inhalation of spray may cause respiratory irritation.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

* **Adverse environmental effects**

Aquatic Acute 2 H401: Toxic to aquatic life.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
497-19-8	207-838-8	sodium carbonate	< 5 weight-%	Eye Irrit. 2; H319	
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5 weight-%	Eye Irrit. 2; H319	



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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1336-21-6	215-647-6	ammonia ...%	< 2.5 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>=5% M=1 (Aquatic Acute 1)

REACH No.	Substance name
01-2119485498-19	sodium carbonate
01-2119489369-18	tetrapotassium pyrophosphate
01-2119488876-14	ammonia ...%

Additional information

Aqueous alkaline mixture of phosphates, complexing agents, carbonates and ammonia.

*** SECTION 4: First aid measures**

*** 4.1 Description of first aid measures**

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

Provide fresh air.
In the event of symptoms refer for medical treatment.

*** Following skin contact**

In case of contact with skin wash off immediately with plenty of water.
In case of skin irritation, consult a physician.

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.

Following ingestion

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.



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*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media
Water

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
Phosphorus oxides

*** 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.

For emergency responders

Ensure adequate ventilation.
Personal protection equipment
Use personal protection.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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.

Take up mechanically and send for disposal.

*** 6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

*** SECTION 7: Handling and storage**



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* **7.1 Precautions for safe handling**

* **Protective measures**
Use only in well-ventilated areas.
Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin.
Take the usual precautions when handling with chemicals.
No special fire protection measures are necessary.
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 only in unopened original container.
Keep container tightly closed.

Storage class

12 non-combustible liquids that cannot be assigned to any of the above storage classes

* **Materials to avoid**
Do not store together with:
alkali

* **Further information on storage conditions**

Keep in a cool, well-ventilated place.
Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Do not keep at temperatures below 5°C.
Do not keep at temperatures above 30°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
7664-41-7	231-635-3	ammonia	20 [ml/m ³ (ppm)] 14 [mg/m ³] Short-term(ml/m ³) 50 Short-term(mg/m ³) 36 EU

* **DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
497-19-8	sodium carbonate	10 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

* **PNEC**

CAS No.	Substance name	PNEC Value	PNEC type	Remark
1336-21-6	ammonia ...%	0.001 mg/L	aquatic, freshwater	Assessment factor 20



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8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Technical exhaustion in case of longtermed exposition in sprayed aerosols.

Personal protection equipment

Eye/face protection

tightly fitting goggles

Hand protection

Gloves with long cuffs

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.

Respiratory protection

Suitable respiratory protection apparatus:

Short term: filter apparatus, combination filter K-P2

Respiratory protection necessary at:

high concentrations

Environmental exposure controls

Technical measures to prevent exposure

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

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

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

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

brownish

Odour

like:

Ammonia

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			ammonia: 5ppm (3.5mg/m3).
Melting point/freezing point	Solidifying point approx. 0 °C		
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit 33.6 Vol-%		Value of ammonia.
Lower and upper explosion limit	Lower explosion limit 15.4 Vol-%		Value of ammonia.
Flash point			none
Auto-ignition temperature	630 °C		Value of ammonia.
Decomposition temperature			not determined



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	Value	Method	Source, Remark
pH	in delivery state 10.5- 11 (20°C)		
Viscosity			not determined
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	-1.14		Value of ammonia.
Vapour pressure	approx. 45 hPa (20°C)		
Density and/or relative density	approx. 1.12 g/cm ³ (20°C)		
Relative vapour density	0.586		Value of ammonia.
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).

* **flammable liquids**

Safety characteristics

	Value	Method, Result	Source, Remark
Flash point (°C)			none

* **Assessment/classification**

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.



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* **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.	

* **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).
Solvent content	0 %		
Explosive properties			none
Oxidising properties			none



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* **Other information**
No further relevant informations available.

* **SECTION 10: Stability and reactivity**

* **10.1 Reactivity**

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

10.2 Chemical stability

No decomposition if used as directed.

10.3 Possibility of hazardous reactions

Reactions with strong acids and alkalis.
Evolution of ammonia under influence of alkalis.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Reactions with strong acids.
Alkali (lye)

10.6 Hazardous decomposition products

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 No.1336-21-6 ammonia ...% LD50: 350 mg/kg Species Rat		
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour) > 50 mg/L	ATE: Acute Toxicity Estimate	
	CAS No.1336-21-6 ammonia ...% LC50: 11.59 mg/L Species Rat Exposure time 1 h		
	CAS No.497-19-8 sodium carbonate LC50: 2.3 mg/L Species Rat Exposure time 2 h		

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



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Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

* **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.

* **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**

* **Other information**
Inhalation of spray may cause respiratory irritation.

* **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.



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* **Aspiration hazard**

* **Assessment/classification**

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

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 8.7 mg/L	calculated.	After neutralization there is a reduction in the harmfulness: LC50(Fish, calculated, after neutralization): >100mg/l.
Chronic (long-term) fish toxicity	CAS No.1336-21-6 ammonia ...% LC50: 0.16- 1.1 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h		
Chronic (long-term) fish toxicity	CAS No.1336-21-6 ammonia ...% NOEC 0.022 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 73 d		
Acute (short-term) toxicity to crustacea	EC50 143 mg/L	calculated.	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.1336-21-6 ammonia ...% EC50 2.94 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.1336-21-6 ammonia ...% NOEC 0.79 mg/L Species Daphnia magna (Big water flea) Test duration 96 h		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 308 mg/L	calculated.	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.1336-21-6 ammonia ...% EC50 330 mg/L Species Chlorella vulgaris Test duration 5 d		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		



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	Effective dose	Method, Evaluation	Source, Remark
Toxicity to microorganisms	not determined		

* **Assessment/classification**
Toxic to aquatic life.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No.7320-34-5 tetrapotassium pyrophosphate Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation			CAS No.1336-21-6 ammonia ...% The methods for determining the biological degradability are not applicable to inorganic substances.
Biodegradation			CAS No.497-19-8 sodium carbonate Inorganic product which is not eliminable from water through biological cleaning processes.

12.3 Bioaccumulative potential

Assessment/classification
sodium carbonate: No bioaccumulation.
tetrapotassium pyrophosphate: Bioaccumulation is improbable.
ammonia: Accumulation in organisms is not expected.

12.4 Mobility in soil

Assessment/classification
sodium carbonate: not available.
tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150).
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			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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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)	approx. 153 mgO ₂ /g	calculated.	
AOX			The product does not contain any organically bound halogens according to the recipe.

Additional information

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life. After neutralization: not classified as acute hazardous to the aquatic environment.
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
200129 *	detergents containing hazardous substances

Appropriate disposal / Product

Do not dispose with household waste.
Suitable for neutralization are acetic acid or citric acid 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	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant

Land transport (ADR/RID)

Remark

Not classified for this transport carrier.



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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 3 - not relevant if used as directed.

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

*** Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

*** 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 0 %

15.2 Chemical Safety Assessment

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

*** 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)

DNEL: derived no-effect level

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

JArbSchG: Youth Labor Protection Act (DE)

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

SCL: Specific concentration limit

TI: Technical Instruction

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative



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

elma lab clean A20sf (ELC A20sf)

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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)

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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Indication of changes

* Data changed compared with the previous version