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

1.1 Product identifier

Trade name/designation elma clean 65 (EC 65)

Unique Formula Identifier UFI: 9X20-D07K-D007-A902

Product category PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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

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
Neutral cleaning concentrate with corrosion inhibitor for laboratory and workshop.

Uses advised against
Do not use for injecting or spraying.

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, EN) +49 761 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Eye Dam. 1, H318	Bridging principle "Substantially similar mixtures".

Hazard statements for health hazards
H318 Causes serious eye damage.

2.2 Label elements

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

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

Hazard pictograms



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.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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% anionic surfactants
15 - 30% non-ionic surfactants
< 5% soap
< 5% phosphates

2.3 Other hazards

Adverse human health effects and symptoms
Acute Tox. 5 (oral) H303: May be harmful if swallowed.
Skin Irrit. 3 H316: Causes mild skin 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.
The product does not contain any PMT-/vPvM-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
68920-66-1			fatty alkohol-PEG-ether	5 - 15 weight-%	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
97489-15-1	307-055-2		Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 10 weight-%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Skin Irrit. 2;H315: C>10% Eye Dam. 1;H318: C>15% Eye Irrit. 2;H319: 10%<C=<15%
67-63-0	200-661-7	603-117-00-0	propan-2-ol	< 5 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	
69011-36-5	931-138-8		isotridecanol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	Eye Dam. 1;H318: C>10% Eye Irrit. 2;H319: 1%<C<=10% ATE(oral): 500 mg/kg

REACH No.	Substance name
Not relevant (polymer).	fatty alkohol-PEG-ether
01-2119489924-20	Sulfonic acids, C14-17-sec-alkane, sodium salts
Not relevant (polymer).	isotridecanol, ethoxylated
01-2119457558-25	propan-2-ol

Additional information
Aqueous mixture of anionic and nonionic surfactants, phosphates, corrosion inhibitor, complexing agents and cosolvent.

Remark
Aqueous neutral cleaning concentrate for metal, glass and synthetic materials.

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.
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
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.
Medical treatment necessary.

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
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
alcohol resistant foam
Extinguishing powder

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:
Nitrogen oxides (NOx)
Carbon monoxide
Phosphorus oxides
Sulphur 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
Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders
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.

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.
After taking up the material dispose according to regulation.

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
Handle and open container with care.
Avoid contact with eyes and skin.
No special fire protection measures are necessary.

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.
Do not keep at temperatures above 35°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/m³(ppm)] Short-term(ml/m³) 400 (1) (1) 15 minutes reference period (IE)
67-63-0	200-661-7	Propan-2-ol	400 [ml/m³(ppm)] 999 [mg/m³] Short-term(ml/m³) 500 Short-term(mg/m³) 1250 (UK)

DNEL worker

CAS No	Substance name	DNEL value	DNEL type	Remark
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/m³	long-term inhalative (systemic)	Assessment factor 1
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 40
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	35 mg/m³	long-term inhalative (systemic)	Assessment factor 10

PNEC

CAS No	Substance name	PNEC Value	PNEC type	Remark
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	0.06 mg/L	aquatic, freshwater	Assessment factor 10
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	600 mg/L	sewage treatment plant (STP)	Assessment factor 1

8.2 Exposure controls

Personal protection equipment

Eye/face protection
tightly fitting 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 propan-2-ol.

* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
yellowish

Odour
mild

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			propan-2-ol: 2.5 - 490 mg/m3 (1 - 196 ppm).
Melting point/freezing point	solidifying range < -5 °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 13 Vol-%		Value of propan-2-ol.
Lower and upper explosion limit	Lower explosion limit 2 Vol-%		Value of propan-2-ol.
Flash point	59 °C	DIN EN ISO 13736	Does not maintain the combustion.
Auto-ignition temperature	> 300 °C		Value of complexing agents.
Decomposition temperature	≥ 100 °C		
pH	in delivery state approx. 7 (20°C)		
Viscosity	dynamic 18.3 mPa*s (20°C)		
Viscosity	kinematic 17.5 mm²/s (20°C)	calculated.	
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	0.24		Value of Sulfonic acids, C14-17-sec-alkane, sodium salts.

	Value	Method	Source, Remark
Vapour pressure	23- 42 hPa (20°C)		
Density and/or relative density	1.04 g/cm³		
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).

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.	

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 %		
Explosive properties			none
Oxidising properties			none

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

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°C.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Reactions with concentrated acids and alkalies above 50°C.

10.6 Hazardous decomposition products

No decomposition if used as directed.

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	4262 mg/kg	ATE: Acute Toxicity Estimate	The acute oral toxicity is corresponding to GHS-category 5.
	CAS No69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No68920-66-1 fatty alkohol-PEG-ether LD50: 1920 mg/kg Species Rat		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts LD50: approx. 1250 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 No67-63-0 propan-2-ol Acute inhalation toxicity (vapour) LC50: 72.6 mg/L Species Rat Exposure time 4 h		

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
mediocre irritant	Calculation method.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Risk of serious damage to eyes.	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
The mixture is not classified as skin sensitiser.		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

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.

11.2 Information on other hazards

Information on other hazards

	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.

Other information

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: 6.3 mg/L	calculated.	
	CAS No68920-66-1 fatty alkohol-PEG-ether LC50: 1.26 mg/L		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts LC50: 2.8 mg/L		
	CAS No69011-36-5 isotridecanol, ethoxylated LC50: >1- 10 mg/L Species Cyprinus carpio (Common Carp) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts NOEC 0.85 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 28 d	OECD 204	
	CAS No69011-36-5 isotridecanol, ethoxylated NOEC 1.73 mg/L	QSAR	
Acute (short-term) toxicity to crustacea	EC50 10 mg/L	calculated.	
	CAS No68920-66-1 fatty alkohol-PEG-ether EC50 2.5 mg/L		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts EC50 9.2 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	

	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts NOEC 0.36 mg/L Species Daphnia magna (Big water flea) Test duration 22 d		
	CAS No69011-36-5 isotridecanol, ethoxylated EC10 2.6 mg/L Species Daphnia magna (Big water flea) Test duration 21 d	OECD 211	
Acute (short-term) toxicity to algae and cyanobacteria	EC50 10.2 mg/L	calculated.	
	CAS No68920-66-1 fatty alkohol-PEG-ether EC50 2.3 mg/L		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts EC50 62.1 mg/L Species Scenedesmus subspicatus Test duration 72 h		
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No68920-66-1 fatty alkohol-PEG-ether EC10: 0.33 mg/L		
	CAS No69011-36-5 isotridecanol, ethoxylated EC10: >1- 10 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification
Toxic to aquatic life.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 90 %	calculated.	DOC reduction Readily biodegradable (according to OECD criteria).
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 95 % Test duration 21 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No67-63-0 propan-2-ol
Biodegradation	Degradation rate 100 % Test duration 28 d	OECD 301D/ EEC 92/69/V, C.4-E	CAS No68920-66-1 fatty alkohol-PEG-ether

	Value	Method	Source, Remark
Biodegradation	Degradation rate 89 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts
Biodegradation	Degradation rate 78 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts

12.3 Bioaccumulative potential

Assessment/classification
fatty alkohol-PEG-ether: not available.
Sulfonic acids, C14-17-sec-alkane, sodium salts: Accumulation in organisms is not expected (log Pow: 0.24).
propan-2-ol: Accumulation in organisms is not expected (log Pow: 0.05).
isotridecanol, ethoxylated: Bioaccumulation is improbable.

12.4 Mobility in soil

Assessment/classification
fatty alkohol-PEG-ether: not available.
Sulfonic acids, C14-17-sec-alkane, sodium salts: Moderate adsorption on soil.
propan-2-ol: Dissolves in water. Highly mobile in soil.
isotridecanol, ethoxylated: Koc: >5000, immobile, strong adsorption on soil.

* 12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.
The product does not contain any PMT-/vPvM-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.

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. 621 mgO2/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 2 H401: Toxic 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
200129 *	detergents containing hazardous substances

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product
Do not dispose with household waste. Do not discharge into the drains.
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Non-contaminated packages may be recycled.

Other disposal recommendations
Application solution / cleaning solution :
Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

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

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 3 + 40 - 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 ≤ 3 %

15.2 Chemical Safety Assessment

National regulations

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)
DIN: German Institute for Standardization / German Industrial Standard
DNEL: derived no-effect level
DOC: Dissolved Organic Carbon
EN: European Standard
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
ISO: International Organization for Standardization
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
Flam. Liq. 2: Flammable Liquids, Category 2
Acute Tox. 4, H302: Acute Toxicity (oral), Category 4
Skin Irrit. 2: Skin irritation, Category 2
Eye Dam. 1: Serious eye damage, Category 1
Eye Irrit. 2: Eye irritation, Category 2
STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)
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.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Indication of changes
* Data changed compared with the previous version