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

1.1 Product identifier

Trade name/designation elma clean 250 dip&splash (EC 250 d&s)

Unique Formula Identifier UFI: N770-P0RE-P00Y-DC49

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

Hazard components
glycollic acid, isotridecanol, ethoxylated, C10- fatty alcohol, alkoxylated

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

Product Categories [PC]
PC35 Washing and cleaning products

Use of the substance/mixture
Acid foam-inhibited cleaning concentrate for hard surfaces in industry and laboratory.

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
Skin Irrit. 2, H315	Expert judgement and weight of evidence determination.
Eye Dam. 1, H318	Calculation method.
STOT SE 3, H335	Calculation method.
Aquatic Chronic 3, H412	Calculation method.

Hazard statements for health hazards
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Hazard statements for environmental hazards
H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard components
glycollic acid, isotridecanol, ethoxylated, C10- fatty alcohol, alkoxylated

Hazard pictograms



GHS05



GHS07

Signal word
Danger

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/eye protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
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.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Other labelling
Labelling for contents according to regulation (EC) No. 648/2004:
15 - 30% non-ionic surfactants
< 5% phosphates
< 5% polycarboxylates

*** 2.3 Other hazards**

* **Adverse human health effects and symptoms**
Acute Tox. 5 (oral) H303: May be harmful if swallowed.
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	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
79-14-1	201-180-5		glycollic acid	5 - 15 weight-%	Met. Corr. 1; H290 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335; EUH071	

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
34590-94-8	252-104-2		(2-methoxymethylethoxy)-propanol	5 - 15 weight-%		
69011-36-5	931-138-8		isotridecanol, ethoxylated	5 - 14 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
166736-08-9			C10- fatty alcohol, alkoxylated	5 - 10 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	ATE(oral): 500 mg/kg
27458-92-0	248-469-2		isotridecanol	< 0.5 weight-%	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)

REACH No.	Substance name
01-2119485579-17	glycollic acid
01-2119450011-60	(2-methoxymethylethoxy)-propanol
Not relevant (polymer).	isotridecanol, ethoxylated
Not relevant (polymer).	C10- fatty alcohol, alkoxylated
Not relevant (impurity).	isotridecanol

Additional information
Aqueous acid foam-inhibited mixture of non-ionic surfactants, complexing agents, solvents and organic acids.

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 case of inhaling spray mist, consult a physician.
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
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
No further informations available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water
alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO_2)

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:
Corrosive gases/vapours
Carbon monoxide
Phosphorus oxides
Under certain fire conditions traces of other toxic substances cannot be excluded.

5.3 Advice for firefighters

Special protective equipment for firefighters
Do not inhale explosion and combustion gases.

Additional information
Fire class
B (Fires of liquids or liquid turning substances).

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.
Use breathing apparatus if exposed to vapours/dust/aerosol.
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
Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
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.
Do not inhale vapours/aerosols.
Avoid contact with eyes and skin.
Take the usual precautions when handling with chemicals.
The product is:
Not readily flammable.
Usual measures for fire prevention.

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.

Materials to avoid
Do not store together with:
alkali
Oxidising agent

Further information on storage conditions
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: 3 years.

7.3 Specific end use(s)

Recommendation
Do not use the product itself for injecting or spraying. Use only the diluted application solution for splash cleaning.

* SECTION 8: Exposure controls/personal protection

* 8.1 Control parameters

*** Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
34590-94-8	252-104-2	(2-Methoxymethylethoxy)-propanol	50 [ml/m³(ppm)] 308 [mg/m³] skin resorptive 2000/39/EC
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m³(ppm)] 308 [mg/m³] (IE)
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m³(ppm)] 308 [mg/m³] (UK)

DNEL worker

CAS No	Substance name	DNEL value	DNEL type	Remark
79-14-1	glycollic acid	57.69 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 100
79-14-1	glycollic acid	1.53 mg/m³	long-term inhalative (local)	Assessment factor 75
79-14-1	glycollic acid	10.56 mg/m³	long-term inhalative (systemic)	Assessment factor 25

PNEC

CAS No	Substance name	PNEC Value	PNEC type	Remark
79-14-1	glycollic acid	0.031 mg/L	aquatic, freshwater	Assessment factor 1000
79-14-1	glycollic acid	7 mg/L	sewage treatment plant (STP)	Assessment factor 10

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
chemical-resistant gloves
Glove material specification [make/type, thickness]: FKM, 0.4mm.
Glove material specification [make/type, thickness]: Butyl, 0.5mm.

Respiratory protection
Respiratory protection necessary at:
aerosol or mist formation
Suitable respiratory protection apparatus:
Short term: filter apparatus, Filter A/P2

Environmental exposure controls

Technical measures to prevent exposure
Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
yellowish

Odour
characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			(2-methoxymethylethoxy)-propanol: 210 - 600mg/m3 (34 - 97 ppm).
Melting point/freezing point	solidifying range		not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable

	Value	Method	Source, Remark
Lower and upper explosion limit	Upper explosion limit 14 Vol-%		Value of (2-methoxymethylethoxy)-propanol.
Lower and upper explosion limit	Lower explosion limit 1.1 Vol-%		Value of (2-methoxymethylethoxy)-propanol.
Flash point			No flash point up to 100 °C.
Auto-ignition temperature	205 °C		Value of (2-methoxymethylethoxy)-propanol.
Decomposition temperature	≥ 100 °C		
pH	in delivery state approx. 2.5 (20°C)		
Viscosity	dynamic 26.4 mPa*s (20°C)		
Viscosity	kinematic 25.2 mm²/s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	5.57		Value of isotridecanol.
Vapour pressure	approx. 24 hPa (20°C)		
Density and/or relative density	approx. 1.05 g/cm³ (20°C)		
Relative vapour density	5.12		Value of (2-methoxymethylethoxy)-propanol.
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

Safety characteristics

	Value	Method, Result	Source, Remark
Flash point (°C)	> 100 °C		

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.

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)	0.6 mm/a	UN Test, Part III of sub-section 37.4	
Corrosion rate (mm steel/year)	0.9 mm/a	UN Test, Part III of sub-section 37.4	

Assessment/classification
The mixture is not classified as corrosive to metals.

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).
Evaporation rate			(2-methoxymethylethoxy)-propanol: ~0.02 (ASTM D3539) / ~400 (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

Exothermic reaction with alkalies.
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 oxidising agents.
Reactions with strong alkalies.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Oxidising agent
Reactions with strong alkalies.

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	2420 mg/kg	ATE: Acute Toxicity Estimate	The acute oral toxicity is corresponding to GHS-category 5.

	Effective dose	Method,Evaluation	Source, Remark
	CAS No69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No79-14-1 glycollic acid LD50: 2040 mg/kg Species Rat		
	CAS No166736-08-9 C10-fatty alcohol, alkoxylated LD50: 500 mg/kg	ATE: Acute Toxicity Estimate	
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 No79-14-1 glycollic acid Acute inhalation toxicity (dust/mist) LC50: 2.5 mg/L Exposure time 4 h	calculated.	

Assessment/classification
May be harmful if swallowed.

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
strongly irritant.	Expert judgement and weight of evidence determination.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Risk of serious damage to eyes.	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
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
Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification
Respiratory irritant effect: STOT SE 3 H335: May cause respiratory irritation.

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

Inhalation of spray may cause strong respiratory irritation and may cause damage to mucous membranes/lung.
Aerosols of product effect toxic in case of inhaling (Acute Tox. 4 H332: Harmful if inhaled.).
OECD 435: not corrosive to skin.
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: 4.4 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol LC50: 0.55 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	

	Effective dose	Method,Evaluation	Source, Remark
	CAS No166736-08-9 C10-fatty alcohol, alkoxylated LC50: >10- 100 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	
	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 No69011-36-5 isotridecanol, ethoxylated NOEC 1.73 mg/L	QSAR	
Acute (short-term) toxicity to crustacea	EC50 3.6 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol EC50 0.391 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
	CAS No166736-08-9 C10-fatty alcohol, alkoxylated EC50 >1- 10 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	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No27458-92-0 isotridecanol NOEC 0.0036 mg/L Species Daphnia magna (Big water flea) Test duration 21 d	OECD 211	
	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 7.5 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol EC50 0.297 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
	CAS No166736-08-9 C10-fatty alcohol, alkoxylated EC50 >10- 100 mg/L Species Scenedesmus subspicatus Test duration 72 h		

	Effective dose	Method,Evaluation	Source, Remark
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Scenedesmus subspicatus Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	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.
Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 80 %	calculated.	DOC reduction Biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
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 > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No166736-08-9 C10-fatty alcohol, alkoxylated
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No27458-92-0 isotridecanol
Biodegradation	Degradation rate > 70 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No34590-94-8 (2-methoxymethylethoxy)-propanol
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	CAS No34590-94-8 (2-methoxymethylethoxy)-propanol
Biodegradation	Degradation rate 89.6 % Test duration 7 d	OECD 301D/ EEC 92/69/V, C.4-E	CAS No79-14-1 glycollic acid

12.3 Bioaccumulative potential

Assessment/classification
glycollic acid: Accumulation in organisms is not expected (log Pow: -1.11).
(2-methoxymethylethoxy)-propanol: Accumulation in organisms is not expected (log Pow: 0.004).
isotridecanol, ethoxylated: Bioaccumulation is improbable.
C10- fatty alcohol, alkoxylated: Accumulation in organisms is not expected.
isotridecanol: Has the potential to bioaccumulate (log Pow: 5.57).

12.4 Mobility in soil

Assessment/classification
glycollic acid: Adsorption on soil is not expected.
(2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.
isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile.
C10- fatty alcohol, alkoxylated: Adsorption on soil is possible.
isotridecanol: 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 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 oyxgen demand (COD)	approx. 0.99 gO2/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.
Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.
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 :
Neutralize with alkalies or lime.
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 - 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 approx. 14.5 %

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)
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
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
Met. Corr. 1: Corrosive to metals, Category 1
Acute Tox. 4, H302: Acute Toxicity (oral), Category 4
Skin Corr. 1B: Skin corrosion, Sub-category 1B
Skin Irrit. 2: Skin irritation, Category 2
Eye Dam. 1: Serious eye damage, Category 1
STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3
Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1
Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1
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)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Indication of changes
* Data changed compared with the previous version