



elma noble clean

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Revision date 24.08.2022
Version 1.9 (en)
replaces version of 24.06.2021 (1.8)

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

*** 1.1 Product identifier**

Trade name/designation elma noble clean
Unique Formula Identifier UFI:U440-F0W4-P005-K24Y

Hazard components
thiourea

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

Use of the substance/mixture

Aqueous jewellery cleaner.

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

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

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Met. Corr. 1, H290	On basis of test data.
Eye Irrit. 2, H319	Calculation method.
Skin Sens. 1, H317	Calculation method.
Carc. 2, H351	Calculation method.
Repr. 2, H361d	Calculation method.
Aquatic Chronic 3, H412	Calculation method.

Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.



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Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Hazard pictograms



GHS05



GHS07



GHS08

* **2.2 Label elements**

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

Signal word

Warning

Hazard statements

H290 May be corrosive to metals.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P405 Store locked up.
P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing and eye/face protection.
P234 Keep only in original packaging.
P273 Avoid release to the environment.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

* **Other labelling**

Labelling for contents according to regulation (EC) No. 648/2004:

< 5% non-ionic surfactants
< 5% phosphates (phosphoric acid)
perfumes

* **2.3 Other hazards**

* **Adverse human health effects and symptoms**

Skin Irrit. 3 H316: Causes mild skin irritation.
This product contains a substance that has endocrine disrupting properties with respect to humans.

* **Adverse environmental effects**

Aquatic Acute 3 H402: Harmful to aquatic life.
This product contains a substance that has endocrine disrupting properties with respect to non-target organisms.

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



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* **3.2 Mixtures**

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
67-63-0	200-661-7	propan-2-ol	< 10 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	
62-56-6	200-543-5	thiourea	5 - 10 weight-%	Acute Tox. 4 ; H302 Skin Sens. 1; H317 Carc. 2; H351 Repr. 2; H361d Aquatic Chronic 2; H411	
7664-38-2	231-633-2	phosphoric acid ...%	< 5 weight-%	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	Skin Corr. 1B;H314: C>=25% Skin Irrit. 2;H315: 10%<=C<25% Eye Irrit. 2;H319: 10%<=C<25%

REACH No.	Substance name
01-2119457558-25	propan-2-ol
01-2119977062-37	thiourea
01-2119485924-24	phosphoric acid ...%

Additional information

Aqueous and acid mixture with nonionic tensides, complexing agent and co-solvent.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

Following inhalation

In case of inhaling spray mist, consult a physician.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

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.

Medical treatment necessary.

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

Effects

Risk of the aspiration of the lung.



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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

alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:
Pyrolysis products, toxic
Nitrogen oxides (NO_x)
Carbon monoxide
Phosphorus oxides
Sulphur oxides

*** 5.3 Advice for firefighters**

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

*** 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
Disposal: see section 13



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*** SECTION 7: Handling and storage**

*** 7.1 Precautions for safe handling**

Protective measures
Handle and open container with care.
Do not inhale 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.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable floor material:
Acid-resistant
Keep/Store only in 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 locked up and out of reach of children.
Store in a place accessible by authorized persons only.
Keep locked up.
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: 4 years.

7.3 Specific end use(s)

Recommendation

See section 1.2

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

*** 8.1 Control parameters**

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m ³] Short-term(mg/m ³) 2 2000/39/EC
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m ³] Short-term(mg/m ³) 2 (1) (1) 15 minutes reference period (IE)
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)
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m ³] Short-term(mg/m ³) 2 (UK)



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CAS No.	EC No.	Substance name	occupational exposure limit value
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)

* **DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
7664-38-2	phosphoric acid ...%	1 mg/m ³	long-term inhalative (local)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	Assessment factor 1
67-63-0	propan-2-ol	888 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 1
62-56-6	thiourea	1 mg/m ³	long-term inhalative (systemic)	Assessment factor 12.5
62-56-6	thiourea	4.81 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 50

* **PNEC**

CAS No.	Substance name	PNEC Value	PNEC type	Remark
62-56-6	thiourea	0.01 mg/L	aquatic, freshwater	Assessment factor 10
62-56-6	thiourea	0.38 mg/L	sewage treatment plant (STP)	Assessment factor 1

8.2 Exposure controls

Personal protection equipment

Eye/face protection
tightly fitting goggles

Hand protection

Gloves (acid-resistant)
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.

Body protection:

Light protective clothing.

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
transparent

Odour
like:
Isopropanol



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Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			propan-2-ol: 2.5 - 490 mg/m ³ (1 - 196 ppm).
Melting point/freezing point	solidifying range		not determined
Boiling point or initial boiling point and boiling range	≥ 78 °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	approx. 40 °C	DIN 51755 part 1	Does not maintain the combustion.
Auto-ignition temperature	425 °C		Value of propan-2-ol.
Decomposition temperature	> 78 °C		
pH	in delivery state 1.2 (20°C)		
Viscosity			not determined
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	0.05 (20°C)		Value of propan-2-ol.
Vapour pressure	approx. 31 hPa (20°C)		
Density and/or relative density	1.022 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).



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* **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)	27.4 mm/a	UN Test, Part III of sub-section 37.4	



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	Value	Method, Result	Source, Remark
Corrosion rate (mm steel/year)	10.2 mm/a	UN Test, Part III of sub-section 37.4	

* **Assessment/classification**
The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

* **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	< 10 weight-%		
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 oxidising agents.
Reactions with strong alkalies.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Oxidising agent
Corrodes aluminium.
Reactions with strong alkalies.

10.6 Hazardous decomposition products

Possible in traces: Hydrogen sulphide (H₂S).

* 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	



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	Effective dose	Method, Evaluation	Source, Remark
Acute dermal toxicity	CAS No.7664-38-2 phosphoric acid ...% LD50: 1530 mg/kg Species Rat		
	CAS No.62-56-6 thiourea LD50: 1750 mg/kg Species Rat		
	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	CAS No.7664-38-2 phosphoric acid ...% LD50: 2740 mg/kg Species Rabbit		
	CAS No.62-56-6 thiourea LD50: > 2800 mg/kg Species Rabbit		
	Acute inhalation toxicity (vapour) > 50 mg/L	ATE: Acute Toxicity Estimate	
	Acute inhalation toxicity (dust/mist)		not relevant
	CAS No.67-63-0 propan-2- ol Acute inhalation toxicity (vapour) LC50: 72.6 mg/L Species Rat Exposure time 4 h		

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

* **Skin corrosion/irritation**

Animal data

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

* **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
sensitising.		Calculation method.	

* **Germ cell mutagenicity**

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



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* **Carcinogenicity**

* **Assessment/classification**
Limited evidence of a carcinogenic effect.

* **Reproductive toxicity**

* **Assessment/classification**
Suspected of damaging the unborn child.

* **Overall Assessment on CMR properties**

The mixture is not classified as mutagen.
The mixture is classified as carcinogen: Carc. 2 H351: Suspected of causing cancer.
The mixture is classified as reproductive toxicant: Repr. 2 H361d: Suspected of damaging the unborn child.

* **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

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties	CAS No.62-56-6 thiourea	questionable	

* **Other information**

Has degreasing effect on the skin.
Frequent persistent contact with the skin may cause skin irritation.

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

* **Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 52 mg/L	calculated.	



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) fish toxicity	CAS No.62-56-6 thiourea LC50: > 600 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h	OECD 204	
	CAS No.62-56-6 thiourea NOEC 5000 mg/L Species Danio rerio (zebrafish) Test duration 14 d		
Acute (short-term) toxicity to crustacea	EC50 46.9 mg/L	calculated.	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.62-56-6 thiourea EC50 5.6- 18 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		
	CAS No.62-56-6 thiourea NOEC 0.25 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 38 mg/L	calculated.	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.62-56-6 thiourea EC50 ≥3.8- 5.4 mg/L Species Scenedesmus subspicatus Test duration 96 h		
	CAS No.62-56-6 thiourea EC10: ≥0.3≤ 0.6 mg/L Species Desmodesmus subspicatus Test duration 96 h		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	CAS No.62-56-6 thiourea EC10 1265 mg/L Species Pseudomonas putida Test duration 18 h		

* **Assessment/classification**

Harmful to aquatic life.
 Harmful to aquatic life with long lasting effects.

* **12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation			The product is biodegradable after extended adaptation. Moderately/partially biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No.7664-38-2 phosphoric acid ...%
Biodegradation	Degradation rate 95 % Test duration 21 d	OECD 301E/ EEC 92/69/V, C.4-B	Inorganic product which is not eliminable from water through biological cleaning processes. CAS No.67-63-0 propan-2-ol



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	Value	Method	Source, Remark
Biodegradation	Degradation rate 0 % Test duration 34 d	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	CAS No.62-56-6 thiourea
Biodegradation	Degradation rate 70- 85 % Test duration 29 d	OECD 302A/ ISO 9887/ EEC 92/69/V, C.12	CAS No.62-56-6 thiourea

12.3 Bioaccumulative potential

Assessment/classification

propan-2-ol: Accumulation in organisms is not expected (log Pow: 0.05).
phosphoric acid: Accumulation in organisms is not expected.
thiourea: Accumulation in organisms is not expected (log Pow: -0.92).

12.4 Mobility in soil

Assessment/classification

propan-2-ol: Dissolves in water. Highly mobile in soil.
phosphoric acid: not available.
thiourea: Low adsorption on soil (Koc: 30,5).

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	CAS No.62-56-6 thiourea	questionable	

*** 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. 205 mgO ₂ /g	calculated.	
Biochemical oxygen demand	13 mgO ₂ /g Test duration 5 d		CAS No.62-56-6 thiourea
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.
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



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Appropriate disposal / Product

Do not dispose with household waste.
Neutralize with alkalies or lime.
Dispose of waste according to applicable legislation.

*

Appropriate disposal / Package

Non-contaminated packages may be recycled.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	1805	1805	1805
14.2 UN proper shipping name	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
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)

UN number or ID number 1805
UN proper shipping name PHOSPHORIC ACID SOLUTION
Transport hazard class(es) 8
Hazard label(s) 8
Classification code C1
Packing group III
Environmental hazards No
Limited quantity (LQ) 5 L
Special provisions -
Tunnel restriction code E

Sea transport (IMDG)

UN number or ID number 1805
UN proper shipping name PHOSPHORIC ACID SOLUTION
Transport hazard class(es) 8
Packing group III
Environmental hazards No
Limited quantity (LQ) 5 L
Marine pollutant No
EmS F-A, S-B



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

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replaces version of 24.06.2021 (1.8)

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number 1805
UN proper shipping name Phosphoric acid, solution
Transport hazard class(es) 8
Packing group III
Environmental hazards No

*** 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.

*** Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

*** 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 5.3 %

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

EmS: emergency procedures

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)

MuSchRiV: Maternity Protection Guideline Ordinance (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

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Indication of changes

* Data changed compared with the previous version