

SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

CLEAMEN 410 bathrooms with gloss

Date of issue: 03. 04. 2015

Version: 3.0

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Replaced version from: 01. 12. 2015

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

1.1 Product identifier

Product Name

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Product code

VC410XXXX98-CLP

Mixture description

An aqueous solution.

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

Identified uses

Liquid detergent for washing of sanitary and washing areas.

Uses advised against

Not suitable for metal surfaces.

It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

1.3 Details of the supplier of the safety data sheet

CORMEN s.r.o.

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

Tel.: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture is classified as **dangerous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

Met. Corr. 1; H290

Eye Dam. 1; H318

Full text of classifications and H-phrases: see section 16.

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The most important adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes serious eye damage.

2.2 Label elements

Hazard pictograms



Signal word

Danger

Components of the mixture to be placed on the label

Contain Alcohols, C12-15, branched and linear, ethoxylated, Etidronic acid, Sulfonic acids, C14-17-sec-alkane, sodium salts, Acetic acid

Hazard statements

H290 - May be corrosive to metals.

H318 - Causes serious eye damage.

Precautionary statements

P102 - Keep out of reach of children.

P234 - Keep only in original packaging.

P280 - Wear protective gloves/protective clothing/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 POISON CENTER/doctor.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Supplemental hazard information

Mandatory additional information is not required according to CLP regulation.

Composition: $\geq 30\%$ water, $< 5\%$ nonionic surfactants, anionic surfactants, citric acid, lactic acid, phosphonate, polyacrylate, perfumes, benzyl alcohol, color.

2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Components of a mixture classified as hazardous

Identification of substance	Content wt. %	Classification according to 1272/2008/EC
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Alcohols, C12-15, branched and linear, ethoxylated

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CAS Number	106232-83-1		Acute Tox. 4; H302
EC Number	500-294-5		Eye Dam. 1; H318
Index Number	not given	≤ 5.0	Aquatic Chronic 3; H412
Registration Number	not subject to registration, it is a polymer		
Citric acid monohydrate			
CAS Number	5949-29-1		
EC Number	201-069-1	≤ 3.0	Eye Irrit. 2; H319
Index Number	not given		
Registration Number	01-2119457026-42-XXXX		
Etidronic acid			
CAS Number	2809-21-4		Met. Corr. 1; H290
EC Number	220-552-8	< 2.0	Acute Tox. 4; H302
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119510391-53-XXXX		
Sulfonic acids, C14-17-sec-alkane, sodium salts			
CAS Number	97489-15-1		Acute Tox. 4; H302
EC Number	307-055-2	≤ 1.5	Skin Irrit. 2; H315
Index Number	not given		Eye Dam. 1; H318
Registration Number	01-2119489924-20-XXXX		
The substance has specific concentration limits: C > 10 %: Skin Irrit. 2; H315, C > 15 %: Eye Dam. 1; H318, 10 % < C ≤ 15 %: Eye Irrit. 2; H319			
Acetic acid			
CAS Number	64-19-7		
EC Number	200-580-7	< 0.03	Flam. Liq. 3; H226
Index Number	607-002-00-6		Skin Corr. 1A; H314
Registration Number	not yet available		
The substance has specific concentration limits: C ≥ 90 %: Skin Corr. 1A; H314, 25 % ≤ C < 90 %: Skin Corr. 1B; H314, 10 % ≤ C < 25 %: Skin Irrit. 2; H315, 10 % ≤ C < 25 %: Eye Irrit. 2; H319			
Full text of classifications and H-phrases: see section 16.			
SECTION 4: First aid measures			
In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything. Protect yourself during rescue work.			
4.1 Description of first aid measures			
Inhalation			
Interrupt the exposure, transfer the person to the fresh air. In case of persistent nausea, seek medical advice.			
Skin contact			
Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.			
Eye contact			

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Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.

Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Are not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, dry extinguishing agent, sand or earth, alcohol resistant foam.

Extensive fire:

Fragmented water streams (water mist), alcohol resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2 Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, phosphorus oxides, phosphine, sulphur oxides, hydrogen sulphide and products of incomplete combustion.

5.3 Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of mist and vapour. At the point of leakage, prevent the movement of unauthorized persons.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3 Methods and material for containment and cleaning up

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According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

6.4 Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see Section 8. Ensure good ventilation to prevent formation of mist and vapour.

Smoking, eating and drinking should be prohibited at the place of use. In place of use should be forbidden to smoke, eat or drink. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2 Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature. Protect from frost.

7.3 Specific end use(s)

Sanitary and bathroom area, professional application.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limit value

Acetic acid CAS: 64-19-7

Limit values - Eight hours		Limit values - Short-term		Note
25 mg/m ³	10 ppm	50 mg/m ³	20 ppm	none

8.1.2 Biological limit values

Not are determined in EU

8.1.3 DNEL and PNEC values

Citric acid monohydrate ES: 201-069-1

DNEL - not yet available

PNEC

Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.44 mg/l	0.044 mg/l	not given	not given	1 000 mg/l

PNEC

Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
34.6 mg/l	3.46 mg/kg	not given	33.1 mg/kg	not given

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Etidronic acid				CAS: 2809-21-4	
DNEL					
Area of use	Route of exposure	Effect	Exposure time	Value	
Workers	Inhalation	Systemic effect	Long term	12 mg/m ³	
Workers	Dermal	Systemic effect	Long term	34 mg/kg/den	
General population	Inhalation	Systemic effect	Long term	2.95 mg/m ³	
General population	Dermal	Systemic effect	Long term	17 mg/kg/den	
General population	Oral	Systemic effect	Long term	1.7 mg/kg/den	
PNEC					
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)	
		Fresh water	Marine water		
0.068 mg/l	0.007 mg/l	not given	not given	40 mg/l	
PNEC					
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators	
136 mg/kg	13.6 mg/kg	no effect	10 mg/kg	3.7 mg/kg food	
Sulfonic acids, C14-17-sec-alkane, sodium salts				CAS: 97489-15-1	
DNEL					
Area of use	Route of exposure	Effect	Exposure time	Value	
Workers	Inhalation	Systemic effect	Long term	35 mg/m ³	
Workers	Dermal	Systemic effect	Long term	5 mg/kg/day	
Workers	Dermal	Local effect	Long term	2.8 mg/cm ²	
Workers	Dermal	Local effect	Acute/short term	2.8 mg/cm ²	
General population	Inhalation	Systemic effect	Long term	12.4 mg/m ³	
General population	Dermal	Systemic effect	Long term	3.57 mg/kg/day	
General population	Dermal	Local effect	Long term	2.8 mg/cm ²	
General population	Dermal	Local effect	Acute/short term	2.8 mg/cm ²	
General population	Oral	Systemic effect	Long term	7.1 mg/kg/day	
PNEC					
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)	
		Fresh water	Marine water		
0.06 mg/l	0.006 mg/l	0.06 mg/l	not given	600 mg/l	
PNEC					
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators	
9.4 mg/kg	0.94 mg/kg	no effect	9.4 mg/kg	53.3 mg/kg food	
8.2 Exposure controls					

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8.2.1 Workers exposure controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2 Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against organic vapour). In the event of an accident or a fire use self-contained breathing apparatus.

Hand protection

Chemically resistant protective gloves. As there are no tests, it is not possible to recommend the glove material for this mixture. The selection of the glove material on consideration of the breakthrough time, permeability and degradation.

Eye/face protection

Wear safety goggles or face shield.

Skin protection

Suitable protective working clothing and footwear.

8.2.3 Environmental exposure controls

Uncontrolled release of the mixture into environment is to be avoided. Observe the emission limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	characteristic
Odour threshold	not determined
pH	2.1
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	> 100 °C
Evaporation rate	not determined
Flammability (solid, gas)	not determined
Lower flammability or explosive limits	not determined not determined
Upper flammability or explosive limits	not determined
Vapour pressure	23 hPa
Vapour density	not determined
Relative density	1 (water = 1)

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Solubility in water	miscible
Solubility in organic solvents	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined
Viscosity	not determined
Explosive properties	is not classified as explosive
Oxidising properties	is not classified as an oxidant

9.2 Other information

Organic solvents	0.0 %
Water	87.9 %
VOC	0.00 %
Solids content	9.5 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture is stable under normal conditions of use. Dangerous reactions do not occur.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Protect from frost.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Burning releases carbon oxides, phosphorus oxides, phosphine, sulphur oxides, hydrogen sulphide and products of incomplete combustion.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Oral data for the mixture are not available
the mixture is not classified by the additive formula
 $ATE_{\text{mixture}} > 7\ 109\ \text{mg/kg}$

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Dermal data for the mixture are not available
the mixture does not contain substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Inhalation data for the mixture are not available
the mixture does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Skin corrosion/irritation

data for the mixture are not available
the mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s)

Serious eye damage/irritation

data for the mixture are not available
the mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s)

Respiratory or skin sensitisation

data for the mixture are not available
the mixture does not contain substances classified as sensitizing or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Germ cell mutagenicity

data for the mixture are not available
the mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Carcinogenicity

data for the mixture are not available
the mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Reproductive toxicity

data for the mixture are not available
the mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Specific target organ toxicity – single exposure

data for the mixture are not available
the mixture does not contain substances classified as toxic for specific target organs in a single exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Specific target organ toxicity – repeated exposure

data for the mixture are not available
the mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3

Aspiration hazard

data for the mixture are not available
the mixture does not contain substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3

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Other information	
See section 2 and 4.	
Alcohols, C12-15, branched and linear, ethoxylated	CAS: 106232-83-1
Acute toxicity	
Oral	the substance is classified in category 4 LD ₅₀ = 300 - 2 000 mg/kg (rat) ATE = 500 mg/kg (for calculation by additive formula)
Dermal	data for the substance are not available
Inhalation	data for the substance are not available
Skin corrosion/irritation	
based on available data, the classification criteria are not met negative (rabbit)	
Serious eye damage/irritation	
causes serious eye damage	
Respiratory or skin sensitisation	
data for the substance are not available	
Germ cell mutagenicity	
data for the substance are not available	
Carcinogenicity	
data for the substance are not available	
Reproductive toxicity	
data for the substance are not available	
Specific target organ toxicity – single exposure	
data for the substance are not available	
Specific target organ toxicity – repeated exposure	
data for the substance are not available	
Aspiration hazard	
the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm ² /s or less at 40 °C	
Citric acid monohydrate	ES: 201-069-1
Acute toxicity	
Oral	based on available data, the classification criteria are not met LD ₅₀ = 11 700 mg/kg (rat)
Dermal	based on available data, the classification criteria are not met LD ₅₀ > 2 000 mg/kg (rat)
Inhalation	data for the substance are not available
Skin corrosion/irritation	

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based on available data, the classification criteria are not met

primary dermal irritation index PDII = 0.3 (max. 8, slight skin irritation) (rabbit, OECD 404)

Serious eye damage/irritation

the substance classified as eye irritant - total irritation score = 9.3 (max. 110, 10% solution, fully reversible after 7 days), 16 (max. 110, 30% solution, not fully reversible after 14 days) (rabbit, 72 h, OECD 405)

Respiratory or skin sensitisation

data for the substance are not available

Germ cell mutagenicity

based on available data, the classification criteria are not met

in vitro: negative (OECD 471), positive (OECD 487)

in vivo: negative (EU method B.22, OECD 475)

Carcinogenicity

data for the substance are not available

Reproductive toxicity

data for the substance are not available

Specific target organ toxicity – single exposure

data for the substance are not available

Specific target organ toxicity – repeated exposure

data for the substance are not available

Aspiration hazard

the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C

Etidronic acid

CAS: 2809-21-4

Acute toxicity

Oral the substance is classified in category 4
LD₅₀ = 1 878 mg/kg (rat)

Dermal based on available data, the classification criteria are not met
LD₅₀ > 10 000 mg/kg (rabbit)

Inhalation data for the substance are not available

Skin corrosion/irritation

based on available data, the classification criteria are not met
mean erythema score = 0 and oedema = 0 (rabbit, 72 hrs., OECD 404)

Serious eye damage/irritation

based on available data, the classification criteria are not met
the substance classified as seriously damaging to the eyes
maximum irritation score = ca. 90 of 110 (irreversible, rabbit, 72 hours, OECD 405)

Respiratory or skin sensitisation

based on available data, the classification criteria are not met
not skin sensitising (guinea pig, maximization test)

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Germ cell mutagenicity	
based on available data, the classification criteria are not met negative (OECD 471, OECD 476, OECD 487)	
Carcinogenicity	
based on available data, the classification criteria are not met NOAEL ≥ 493 mg/kg/day (rat, female, oral, OECD 453) NOAEL ≥ 384 mg/kg/day (rat, female, oral, OECD 453)	
Reproductive toxicity	
based on available data, the classification criteria are not met NOAEL = 92 mg/kg/day (rat, female, oral, generation P0, OECD 416) NOAEL = 92 mg/kg/day (rat, female, oral, generation F1, OECD 416)	
Specific target organ toxicity – single exposure	
data for the substance are not available	
Specific target organ toxicity – repeated exposure	
based on available data, the classification criteria are not met NOAEL = 34 mg/kg/day (juvenile rats, rat, male, oral, 90 d., OECD 408) LOAEL = 139 mg/kg/day (anemia, rat, male, oral, 90 d., OECD 408)	
Aspiration hazard	
the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm ² /s or less at 40 °C	
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS: 97489-15-1
Acute toxicity	
Oral	the substance is classified in category 4 LD ₅₀ = 500 - 2 000 mg/kg (rat) ATE = 500 mg/kg (for calculation by additive formula)
Dermal	based on available data, the classification criteria are not met LD ₅₀ > 2 000 mg/kg (mouse, female)
Inhalation	data for the substance are not available
Skin corrosion/irritation	
the substance classified as skin irritant mean erythema score = 3.45 (fully reversible after 14 days) and oedema = 2.44 (fully reversible after 14 days) (rabbit, 72 hrs. OECD 404)	
Serious eye damage/irritation	
the substance classified as seriously damaging to the eyes mean score of corneal opacity > 1 - ≤ 3 (not fully reversible), iritis > 0 - ≤ 1 (not fully reversible), conjunctival redness > 2 - ≤ 3 (not fully reversible), conjunctival oedema ≥ 2 (not fully reversible) (rabbit, 72 h, OECD 405)	
Respiratory or skin sensitisation	
based on available data, the classification criteria are not met not skin sensitising (guinea pig, OECD 406)	
Germ cell mutagenicity	

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based on available data, the classification criteria are not met
negative (OECD 471, OECD 476)

Carcinogenicity

based on available data, the classification criteria are not met
NOEL = ca. 1 000 mg/kg/day (carcinogenicity, rat, oral)
LOAEL = ca. 1 000 mg/kg/day (toxicity, rat, oral)

Reproductive toxicity

based on available data, the classification criteria are not met
NOAEL \geq 1 000 mg/kg/day (rat, oral, generation P, F1a, F1b, F2a, F2b, two-generation test)

Specific target organ toxicity – single exposure

data for the substance are not available

Specific target organ toxicity – repeated exposure

based on available data, the classification criteria are not met
NOAEL = ca. 500 mg/kg/day (mouse, dermal)

Aspiration hazard

the substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm²/s or less at 40 °C

SECTION 12: Ecological information

12.1 Toxicity

Mixture

Fish

data for the mixture are not available

Crustaceans

data for the mixture are not available

Algae

data for the mixture are not available

Citric acid monohydrate

ES: 201-069-1

the substance is not classified as dangerous for the aquatic environment

Fish

LC₅₀, 48 hrs., *Leuciscus idus*: 440 - 760 mg/l (mortality)

LC₀, 48 hrs., *Leuciscus idus*: 200 - 620 mg/l (mortality)

Crustaceans

LC₅₀, 24 hrs., *Daphnia Magna*: 1 535 mg/l (mortality)

LC₀, 24 hrs., *Daphnia Magna*: 1 206 mg/l (mortality)

Algae

NOEC, 8 d., *Scenedesmus quadricauda*: 425 mg/l (cell density)

Etidronic acid

CAS: 2809-21-4

the substance is not classified as dangerous for the aquatic environment

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Fish	
LC ₅₀ , 96 hrs., Oncorhynchus mykiss: 195 mg/l (mobility) NOEC, 14 d., Oncorhynchus mykiss: 60 mg/l (behaviour, loss of equilibrium)	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 527 mg/l (mobility) NOEC, 28 d., Daphnia Magna: 60 mg/l (adult survival and number of pups)	
Algae	
data for the substance are not available	
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS: 97489-15-1
the substance is classified as Aquatic Chronic 3; H412	
Fish	
LC ₅₀ , 96 hrs., Leuciscus idus: 5.5 mg/l (mortality) NOEC, 28 d., Oncorhynchus mykiss: 0.85 mg/l (mortality)	
Crustaceans	
EC ₅₀ , 48 hrs., Daphnia Magna: 9.2 mg/l (mobility) NOEC, 22 d., Daphnia Magna: 0.36 mg/l (reproduction)	
Algae	
EC ₅₀ , 72 hrs., Desmodesmus subspicatus: > 61 mg/l (growth rate) EC ₁₀ , 72 hrs., Desmodesmus subspicatus: 58.8 mg/l (growth rate)	
12.2 Persistence and degradability	
Mixture	
data for the mixture are not available The surfactants contained in this preparation in accordance with the biodegradability criteria according to Regulation (EC) No. 648/2004 on detergents.	
Alcohols, C12-15, branched and linear, ethoxylated	CAS: 106232-83-1
readily biodegradable: > 70 % after 28 days (OECD 301)	
Citric acid monohydrate	ES: 201-069-1
readily biodegradable: 100 % after 19 days (removal of dissolved organic carbon, OECD 301 E)	
Etidronic acid	CAS: 2809-21-4
not readily biodegradable: BOD5/COD = 23 % (OECD 301 D) BOD - Biological Oxygen Demand COD - Chemical Oxygen Demand	
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS: 97489-15-1
readily biodegradable: 78 % after 28 days (CO ₂ evolution, OECD 301 B)	
Acetic acid	CAS: 64-19-7
readily biodegradable: 96 % after 20 days (biooxidation)	
12.3 Bioaccumulative potential	
Mixture	

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data for the mixture are not available	
Citric acid monohydrate	ES: 201-069-1
log BCF = 0.5 log Pow = -1.72	
Etidronic acid	CAS: 2809-21-4
BCF < 7 (Cyprinus carpio, dose 0.06 mg/l) BCF < 2 (Cyprinus carpio, dose 0.6 mg/l) log Pow = -3.5 (OECD 117)	
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS: 97489-15-1
log Pow = 0.2 (20 °C, pH = 7 - 8.5, EU method A.8)	
12.4 Mobility in soil	
Mixture	
data for the mixture are not available	
Citric acid monohydrate	ES: 201-069-1
data for the substance are not available	
Etidronic acid	CAS: 2809-21-4
log Koc = 4.22	
Sulfonic acids, C14-17-sec-alkane, sodium salts	CAS: 97489-15-1
data for the substance are not available	
12.5 Results of PBT and vPvB assessment	
Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.	
12.6 Other adverse effects	
data are not available	
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
Disposal methods of the substance or mixture and the contaminated packaging	
Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company. For classifying the waste and the removal of waste producer responsibility.	
Possible waste code	
07 06 01* - aqueous washing liquids and mother liquors (mixture), 15 01 10* - packaging containing residues of or contaminated by dangerous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging)	
Physical/chemical properties that may affect waste treatment options	
Metal corrosion.	
Special precautions recommended for waste management	

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None known.

Waste legislation

Directive 2008/98/EC

SECTION 14: Transport information

14.1 UN number

3265

14.2 UN proper shipping name

ADR/RID/IMDG/IATA CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Etidronic acid)

14.3 Transport hazard class(es)

8

14.4 Packing group

III

14.5 Environmental hazards

it is not dangerous for the environment during transport

14.6 Special precautions for user

not given

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not available

14.8 Other information

Labeling according to ADR



Additional data for ADR/RID

classification code	C3
labels	8
hazard identification code	80
tunnel restriction code	E (ADR), - (RID)
limited quantities	5 I
excepted quantities	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1 000 ml
transport category	3

Additional data for IMDG

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Emergency Schedules (EmS)

F-A/S-B

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation No. 1907/2006/ES, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as subsequently amended (REACH)

Regulation No. 1272/2008/ES, on Classification, Labelling and Packaging of substances and mixtures, as subsequently amended (CLP)

Regulation No. 648/2004/EC on detergents

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Reason for the revision of the safety data sheet

Change in the classification and labeling of the mixture in section 2, change of composition in section 3 and related changes in the other sections of the safety data sheet. The values in sections 8, 11 and 12 are added according to the registration dossier of compounds. Change in section 14.

Key or legend to abbreviations and acronyms

Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 3	Flammable liquid, cat. 3
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
VOC	Volatile organic compound
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

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European legislation, manufacturer's safety data sheet, registration dossier of substances.

List of H- and P- phrases

H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P234	Keep only in original packaging.
P280	Wear protective gloves/protective clothing/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 POISON CENTER/doctor.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Training advice

According to MSDS.

Other information

The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

The safety data sheet was created by company LACHEPRA s.r.o.