

Safety Data Sheet

LUXEDO



Safety Data Sheet dated 19/5/2025, version 8.0

This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification:

Trade name: LUXEDO

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

Recommended use:

Scented Revitalizing Treatment for Evaporators

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SPA

Via Industriale, 14

25030 Corzano – Brescia – ITALY

Tel. +390309719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number

Tel. +390309719096

Service hours (Italian and English): from Monday to Friday

08.30 – 12.00 and 13.30 – 18.00 (UTC +1)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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.

P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

None

Contains

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone;

1,2-benzisothiazolin-3-one: May produce an allergic reaction.

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Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 5\%$ - $< 7\%$	propan-2-ol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-21194575 58-25-XXXX	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
$\geq 1\%$ - $< 2.5\%$	Sodium N-lauroylsarcosinate	CAS: 137-16-6 EC: 205-281-5 REACH No.: 01-21195277 80-39-XXXX	3.1/2 Inhal Acute Tox. 2 H330 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C $\geq 34,5\%$: Acute Tox. 2 H330 0% $\leq$ C $< 34,5\%$: Acute Tox. 4 H332 C $\geq 30\%$: Skin Irrit. 2 H315 C $\geq 30\%$: Eye Dam. 1 H318 1% $\leq$ C $< 30\%$: Eye Irrit. 2 H319
$\geq 1\%$ - $< 2.5\%$	ethanol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-21194576 10-43-XXXX	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319
$\geq 0.1\%$ - $< 0.25\%$	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanol	CAS: 54464-57-2 EC: 915-730-3 REACH No.: 01-21194899 89-04-XXXX	3.2/2 Skin Irrit. 2 H315 3.4.2/1B Skin Sens. 1B H317 4.1/C2 Aquatic Chronic 2 H411
$\geq 0.05\%$ - $< 0.1\%$	didecyldimethylammonium chloride	Index number: 612-131-00-6 CAS: 7173-51-5 EC: 230-525-2 REACH No.: 01-21199459 87-15-XXXX	3.1/3 Oral Acute Tox. 3 H301 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 M=10. 4.1/C2 Aquatic Chronic 2 H411 M=1.
$\geq$	Quaternary ammonium	CAS: 85409-23-0	3.1/4 Oral Acute Tox. 4 H302

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0.05% - < 0.1%	compounds, C12-14-alkyl[(ethylphe nyl)methyl]dimethyl, chlorides	EC: 287-090-7 REACH No.: 01-21207718 12-51-XXXX	3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 M=10. 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 0.05% - < 0.1%	Quaternary ammonium compounds, benzyl-C12-16-alkyldi methyl, chlorides	CAS: 68424-85-1 EC: 270-325-2 REACH No.: 01-21199651 80-41-XXXX	3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 M=10. 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 0.01% - < 0.035%	1,2-benzisothiazolin-3- one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH No.: 01-21207615 40-60-XXXX	3.1/2/Inhal Acute Tox. 2 H330 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1. Specific Concentration Limits: C >= 0,036%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral 450 mg/kg bw ATE - Inhalation (Dust/mist) 0,21 mg/L
>= 0.0001% - < 0.01%	sodium hydroxide	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH No.: 01-21194578 92-27-XXXX	2.16/1 Met. Corr. 1 H290 3.2/1A Skin Corr. 1A H314 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 5%: Skin Corr. 1A H314 2% <= C < 5%: Skin Corr. 1B H314 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

- Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
Store away from direct sunlight.
Store the product between + 0 °C / + 32 °F and + 40 °C / + 104 °F.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
Information not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propan-2-ol - CAS: 67-63-0

OEL - TWA(8h): 200 ppm - STEL(15min): 400 ppm
ACGIH - TWA(8h): 492 mg/m³, 200 ppm - STEL(15min): 983 mg/m³, 400 ppm
MAK - TWA(8h): 500 mg/m³, 200 ppm - STEL(15min): 1000 mg/m³, 400 ppm
VLA - TWA(8h): 500 mg/m³, 200 ppm - STEL(15min): 1000 mg/m³, 400 ppm
VLEP - STEL(15min): 980 mg/m³, 400 ppm
WEL - TWA(8h): 999 mg/m³, 400 ppm - STEL(15min): 1250 mg/m³, 500 ppm
TLV (GR) - TWA(8h): 980 mg/m³, 400 ppm - STEL(15min): 1225 mg/m³, 500 ppm
NDS/NDSch - TWA(8h): 900 mg/m³ - STEL(15min): 1200 mg/m³ - Notes: Skin
NGV/KGV - TWA(8h): 350 mg/m³, 150 ppm - STEL(15min): Ceiling 600 mg/m³,
Ceiling 250 ppm
MV - TWA(8h): 500 mg/m³, 200 ppm - STEL(15min): 1000 mg/m³, 400 ppm
GVI - TWA(8h): 999 mg/m³, 400 ppm - STEL(15min): 1250 mg/m³, 500 ppm
TLV (CZ) - TWA(8h): 500 mg/m³, 200 ppm - STEL(15min): 1000 mg/m³, 400 ppm
TLV (EST) - TWA(8h): 350 mg/m³, 150 ppm - STEL(15min): 600 mg/m³, 250 ppm

ethanol - CAS: 64-17-5

ACGIH - STEL(15min): 1884 mg/m³, 1000 ppm
NGV/KGV - TWA(8h): 1000 mg/m³, 500 ppm - STEL(15min): Ceiling 1900 mg/m³,
Ceiling 1000 ppm - Notes: A3
MAK - TWA(8h): 380 mg/m³, 200 ppm - STEL(15min): 1520 mg/m³, 800 ppm
VLA - STEL(15min): 1910 mg/m³, 1000 ppm
VLEP - TWA(8h): 1900 mg/m³, 1000 ppm - STEL(15min): 9500 mg/m³, 5000 ppm
WEL - TWA(8h): 1920 mg/m³, 1000 ppm
TLV (GR) - TWA(8h): 1900 mg/m³, 1000 ppm
GVI - TWA(8h): 1900 mg/m³, 1000 ppm
NDS/NDSch - TWA(8h): 1900 mg/m³
TLV (BG) - TWA(8h): 1000 mg/m³
TLV (EST) - TWA(8h): 1000 mg/m³, 500 ppm - STEL(15min): 1900 mg/m³, 1000 ppm
TLV (CZ) - TWA(8h): 1000 mg/m³, 522 ppm - STEL(15min): 3000 mg/m³, 1566 ppm

sodium hydroxide - CAS: 1310-73-2

EU - STEL: Ceiling 2 mg/m³ - Notes: URT, eye, and skin irr; ACGIH
NDS/NDSch - TWA(8h): 0.5 mg/m³ - STEL(15min): 1 mg/m³

DNEL Exposure Limit Values

propan-2-ol - CAS: 67-63-0

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects

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Worker Industry: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Sodium N-lauroylsarcosinate - CAS: 137-16-6
Worker Professional: 70.53 mg/m³ - Consumer: 17.39 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 20 mg/kg - Consumer: 10 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 10 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
ethanol - CAS: 64-17-5
Worker Industry: 1900 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 950 mg/m³ - Consumer: 114 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone - CAS: 54464-57-2
Consumer: 3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 28.7 mg/kg - Consumer: 17.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 30 mg/m³ - Consumer: 9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
didecyltrimethylammonium chloride - CAS: 7173-51-5
Worker Professional: 5.39 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5.39 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 1.55 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 1.55 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides - CAS: 85409-23-0
Worker Professional: 1 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Worker Professional: 3.96 mg/m³ - Consumer: 1.64 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5.7 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
sodium hydroxide - CAS: 1310-73-2
Worker Professional: 1 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
PNEC Exposure Limit Values
propan-2-ol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/L
Target: Marine water - Value: 140.9 mg/L
Target: Freshwater sediments - Value: 552 mg/kg
Target: Aquatic, periodic release - Value: 140.9 mg/L
Target: Microorganisms in sewage treatments - Value: 2251 mg/L

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Target: Food chain - Value: 160 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg
Sodium N-lauroylsarcosinate - CAS: 137-16-6
Target: Fresh Water - Value: 0.009 mg/L
Target: Fresh water, intermittent - Value: 0.089 mg/L
Target: Marine water - Value: 0.001 mg/L
Target: Marine water, intermittent - Value: 0.009 mg/L
Target: Freshwater sediments - Value: 0.064 mg/kg
Target: Marine water sediments - Value: 0.006 mg/kg
Target: Microorganisms in sewage treatments - Value: 3 mg/L
Target: Soil (agricultural) - Value: 0.008 mg/kg
ethanol - CAS: 64-17-5
Target: Fresh Water - Value: 0.96 mg/L
Target: Marine water - Value: 0.79 mg/L
Target: Freshwater sediments - Value: 36 mg/kg
Target: Marine water sediments - Value: 2.9 mg/kg
Target: Aquatic, periodic release - Value: 2.75 mg/L
Target: Microorganisms in sewage treatments - Value: 580 mg/L
Target: Secondary poisoning - Value: 0.72 mg/kg
Target: Soil (agricultural) - Value: 0.63 mg/kg
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone - CAS: 54464-57-2
Target: Marine water - Value: 0.00044 mg/L
Target: Fresh Water - Value: 0.0044 mg/L
Target: Marine water sediments - Value: 0.75 mg/kg
Target: Freshwater sediments - Value: 3.73 mg/kg
Target: Soil (agricultural) - Value: 2.7 mg/kg
didecyldimethylammonium chloride - CAS: 7173-51-5
Target: Fresh Water - Value: 0.002 mg/L
Target: Marine water - Value: 0.0002 mg/L
Target: Freshwater sediments - Value: 2.82 mg/kg
Target: Marine water sediments - Value: 0.28 mg/kg
Target: Microorganisms in sewage treatments - Value: 0.595 mg/L
Target: Soil (agricultural) - Value: 1.4 mg/kg
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides - CAS: 85409-23-0
Target: Fresh Water - Value: 0.000415 mg/L
Target: Marine water - Value: 0.000042 mg/L
Target: Microorganisms in sewage treatments - Value: 0.21 mg/L
Target: Freshwater sediments - Value: 6.81 mg/kg
Target: Marine water sediments - Value: 0.681 mg/kg
Target: Soil (agricultural) - Value: 1.36 mg/kg
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1
Target: Fresh Water - Value: 0.001 mg/L
Target: Marine water - Value: 0.001 mg/L
Target: Freshwater sediments - Value: 12.27 mg/kg - Notes:: dry weight
Target: Marine water sediments - Value: 13.09 mg/kg - Notes:: dry weight
Target: Microorganisms in sewage treatments - Value: 0.4 mg/L
Target: Soil (agricultural) - Value: 7 mg/kg - Notes:: dry weight

8.2. Exposure controls

Eye protection:

Tightly fitting safety goggles.

Protection for skin:

Overall.

Protection for hands:

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One-time gloves.
 Suitable material:
 CR (polychloroprene, chloroprene rubber).
 NBR (nitrile rubber).
 PE (polyethylene).
 NR (natural rubber, natural latex).
 PVC (polyvinyl chloride).

Material thickness: minimum 0.12 mm.

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Green	--	--
Odour:	perfumed	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	9	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	total	--	--
Solubility in oil:	partial	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.99 g/mL (+20°C/+68°F)	--	--
Relative vapour density:	N.A.	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
Information not available.
- 10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

- a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
- d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

propan-2-ol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 13900 mg/kg

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Test: LC50 - Route: Inhalation Vapour - Species: Rat > 25000 mg/L - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit 6290 mg/kg

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rabbit 480 mg/kg

Sodium N-lauroylsarcosinate - CAS: 137-16-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 1-5 mg/L - Duration: 4h - Source: OECD Test Guideline 403 - Notes: Test substance: 35% Remarks: Harmful by inhalation.

Test: LC50 - Route: Inhalation - Species: Rat > 0.05-0.5 mg/L - Duration: 4h - Source: OECD Test Guideline 403 - Notes: Test substance: 100% Remarks: Toxic by inhalation.

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD Test Guideline 401

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Duration: 4h - Source: OECD Test Guideline 404 - Notes: Test substance: 30%

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Source: OECD Test Guideline 405 - Notes: Test substance: 30%

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Source: Dir. 67/548/CEE, Annex V, B.6. - Notes: Test substance: 30%

e) germ cell mutagenicity:

Test: Genotoxicity - Species: Salmonella Typhimurium Negative

g) reproductive toxicity:

Test: NOAEL - Species: Rat > 250 mg/kg/day - Source: OCSE 414 - Notes: Developmental toxicity

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat 30 mg/kg - Source: Dir. 67/548/CEE, Annex V, B.7. - Notes: Exposure Time: 90 days Number of expositions: 1x /day

ethanol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Notes: OCSE 401

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 117 mg/L - Duration: 4h - Notes: OCSE 403

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat > 20000 ppm - Notes: OCSE 414 (phoetal development)

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone - CAS: 54464-57-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

b) skin corrosion/irritation:

Test: NOEL - Route: Skin 47244 µg/cm² - Source: OECD TG 402

Test: Skin Irritant - Route: Skin Positive - Notes: 45% HRIPT

c) serious eye damage/irritation:

Test: Eye Irritant Negative - Notes: FHSA

d) respiratory or skin sensitisation:

Test: NESIL - Route: Skin 47200 µg/cm² - Source: OECD TG 402 - Notes: (no expected sensitization induction level)

Test: Skin Sensitization - Route: Skin Positive - Notes: >6% HRIPT

g) reproductive toxicity:

Test: NOAEL 240 mg/kg - Notes: developmental maternal

h) STOT-single exposure:

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Test: NOAEL 480 mg/kg - Notes: developmental foetal
didecyldimethylammonium chloride - CAS: 7173-51-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 238 mg/kg - Source: Method: OECD Test Guideline 401

Test: LD50 - Route: Skin - Species: Rabbit 3342 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Source: Method: OECD Test Guideline 404 - Notes: Exposure time: 3 min

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Source: Method: US-EPA, OECD TG 406 - Notes: Buehler Test

e) germ cell mutagenicity:

Test: Ames test - Species: Salmonella Typhimurium Negative - Source: Method: OECD Test Guideline 471 - Notes: Metabolic activation

Test: chromosomal aberration test - Route: In vitro - Species: Chinese hamster ovary cells Negative - Notes: Metabolic activation

Test: Mutagenesis - Species: Chinese hamster ovary cells Negative - Notes: Metabolic activation

Test: chromosomal aberration test - Route: Oral - Species: Rat Negative 600 mg/kg - Source: Method: OECD Test Guideline 475 - Notes: Chromosome aberration test in vivo

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides - CAS: 85409-23-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 344 mg/kg - Notes: Method: comparable to OECD 401 - data from similar substance

Test: LD50 - Route: Skin - Species: Rabbit 2300 mg/kg - Notes: data from similar substance

e) germ cell mutagenicity:

Test: Ames test - Route: In vitro - Species: Salmonella Typhimurium Negative - Notes: Mutagenicity with or without metabolic activation. BPL: yes

Test: chromosomal aberration test - Route: In vitro - Species: mammalian cells Negative - Source: OECD TG 473 - Notes: BPL: yes - data from similar substance

Test: Mutagenesis - Route: In vitro Negative - Notes: BPL: yes - data from similar substance

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat 51 mg/kg - Notes: BPL: yes - Test type: Bigenerational study.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 344 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 3412 mg/kg - Notes: Method: OPPTS 870.1200

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Duration: 4h - Source: Method: DOT

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Negative - Source: Buehler Test OECD TG 406

e) germ cell mutagenicity:

Test: Ames test - Route: In vitro - Species: Salmonella Typhimurium Negative - Source: OECD TG 471 - Notes: Methabolic activation: yes - BPL: yes

Test: chromosomal aberration test - Route: In vitro - Species: Human lymphocytes
Negative - Source: OECD TG 473 - Notes: Methabolic activation: yes
Test: Mutagenesis - Route: In vitro - Species: Chinese hamster ovary cells Negative -
Source: OECD TG 476 - Notes: Methabolic activation: yes - BPL: yes
Test: Genotoxicity - Route: In vitro - Species: rat hepatocytes Negative - Source:
Unscheduled DNA synthesis test OECD TG 482 - Notes: BPL: yes

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat Negative 54 mg/kg - Source: OECD TG 416
- Notes: Doses: 0-300-1000-2000 ppm. General toxicity F1: 54-86 mg / kg, general
toxicity

1,2-benzisothiazolin-3-one - CAS: 2634-33-5

a) acute toxicity

ATE - Oral 450 mg/kg bw
ATE - Inhalation (Dust/mist) 0,21 mg/L
Test: LD50 - Route: Oral - Species: Rat 490 mg/kg - Notes: OECD TG 401
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg - Notes: OECD TG 402
Test: Acute toxicity estimate - Route: Oral - Species: Rat 490 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD TG 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: Eyes - Species: Rabbit Positive - Notes: EPA OPP 81-4

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Positive - Notes: OECD TG
406

e) germ cell mutagenicity:

Test: Genotoxicity - Route: In vitro - Species: Generic Bacteria Negative - Notes:
OECD TG 471
Test: Genotoxicity - Route: Oral - Species: Rat Negative - Notes: OECD TG 486

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat Negative 112 mg/kg bw - Notes: OPPTS
870.3800

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat 150 mg/kg - Duration: 28 d - Notes: OECD
TG 407

sodium hydroxide - CAS: 1310-73-2

a) acute toxicity:

Test: LC50 - Route: Inhalation > 4800 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Source: OECD TG 405

d) respiratory or skin sensitisation:

Test: Respiratory Sensitization - Route: In vitro Negative - Notes: ECHA
Test: Skin Sensitization - Route: In vitro Negative - Notes: ECHA

e) germ cell mutagenicity:

Test: Ames test - Species: Salmonella Typhimurium Negative

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

propan-2-ol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/L - Duration h: 96 - Notes: Species:

Pimephales promelas

Endpoint: LC50 - Species: Daphnia > 10000 mg/L - Duration h: 24

Endpoint: EC50 - Species: Algae 1800 mg/L - Duration h: 168 - Notes: Species:

Scenedesmus quadricauda

Sodium N-lauroylsarcosinate

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 32.1 mg/L - Duration h: 96 - Notes: OECD Test

Guideline 203 Species: Danio rerio (zebra fish) semi-static Test substance: 30%

Endpoint: EC50 - Species: Daphnia 8.91 mg/L - Duration h: 48 - Notes: OECD Test

Guideline 202 Species: Daphnia magna (water flea) static Test substance: 30%

e) Plant toxicity:

Endpoint: ErC50 - Species: Algae 79 mg/L - Duration h: 72 - Notes: OECD Test

Guideline 201 Species: Desmodesmus subspicatus (green algae) static Test

substance: 30%

Endpoint: EbC50 - Species: Algae 39 mg/L - Duration h: 72 - Notes: OECD Test

Guideline 201 Species: Desmodesmus subspicatus (green algae) static Test

substance: 30%

Endpoint: NOEC - Species: Algae 9.2 mg/L - Duration h: 72 - Notes: OECD TG 201.

Species: Desmodesmus subspicatus

ethanol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 14200 mg/L - Duration h: 96 - Notes: Species:

Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 12300 mg/L - Duration h: 48 - Notes: Species:

Daphnia magna

Endpoint: EC50 - Species: Algae > 275 mg/L - Duration h: 72 - Notes: Species:

Chlorella vulgaris

Endpoint: EC50 - Species: Daphnia = 5012 mg/L - Duration h: 48 - Notes: Species:

Ceriodaphnia dubia

Endpoint: EC50 - Species: Algae 4432 mg/L - Duration h: 168 - Notes: Species: lemna

gibba

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 9.6 mg/L - Duration h: 216 - Notes: Species:

Daphnia magna

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.3 mg/L - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1.38 mg/L - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.6 mg/L - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.16 mg/L

Endpoint: NOEC - Species: Daphnia = 0.028 mg/L

Endpoint: NOEC - Species: Algae = 2.6 mg/L

didecyldimethylammonium chloride

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.19 mg/L - Duration h: 96 - Notes: Species:

Pimephales promelas (fathead minnow) Acute toxicity Method: US-EPA

Endpoint: EC50 - Species: Daphnia 0.062 mg/L - Duration h: 48 - Notes: Species:

Daphnia magna (Water flea) Immobilization Method: EPA-FIFRA

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Endpoint: ErC50 - Species: Algae 0.026 mg/L - Duration h: 96 - Notes: Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 0.032 mg/L - Duration h: 816 - Notes: Species: Danio rerio (zebra fish) Chronic toxicity Method: OECD Test Guideline 210

Endpoint: NOEC - Species: Daphnia 0.014 mg/L - Duration h: 504 - Notes: Species: Daphnia magna (Water flea)

c) Bacteria toxicity:

Endpoint: EC50 - Species: Activated sludge 11 mg/L - Duration h: 3 - Notes: Species: activated sludge Respiration inhibition Method: OECD Test Guideline 209

d) Terrestrial toxicity:

Endpoint: NOEC - Species: earthworms > 1000 mg/kg - Duration h: 336 - Notes: Species: Eisenia fetida Method: OECD Test Guideline 207

e) Plant toxicity:

Endpoint: EC50 - Species: Terrestrial plants 283 mg/kg - Duration h: 336 - Notes: 283 - 1670 mg/kg Growth inhibition Method: OECD Test Guideline 208

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 0.00415 mg/L - Duration h: 504 - Notes: Method: EPA OPP 72-4 - BPL: yes

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.28 mg/L - Duration h: 96 - Notes: Species: Pimephales promelas (fathead minnow) Acute Toxicity Method: US-EPA

Endpoint: EC50 - Species: Daphnia 0.016 mg/L - Duration h: 48 - Notes: Species: Daphnia magna (Water flea) Immobilization Method: OECD Test Guideline 202

Endpoint: ErC50 - Species: Algae 0.049 mg/L - Duration h: 72 - Notes: Species: Pseudokirchneriella subcapitata (green algae)

Cell multiplication inhibition test Method: OECD Test Guideline 201

Endpoint: NOEC - Species: Fish 0.456 mg/L - Duration h: 96 - Notes: Species: Lepomis macrochirus

Endpoint: LC50 - Species: Fish 0.515 mg/L - Duration h: 96 - Notes: Species: Lepomis macrochirus

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 0.0322 mg/L - Duration h: 816 - Notes: Species: Pimephales promelas (fathead minnow) Early-life Stage Method: EPA-FIFRA

Endpoint: NOEC - Species: Daphnia 0.00415 mg/L - Duration h: 504 - Notes: Species: Daphnia magna (Water flea) Reproduction Test Method: EPA-FIFRA

c) Bacteria toxicity:

Endpoint: EC50 - Species: Activated sludge 7.75 mg/L - Duration h: 3 - Notes: OECD Test Guideline 209

d) Terrestrial toxicity:

Endpoint: LC50 - Species: earthworms 7070 mg/kg - Duration h: 336 - Notes: Species: Eisenia fetida Method: OECD Test Guideline 207

Endpoint: EC50 - Species: Microflora of the soil > 1000 mg/kg - Duration h: 672 - Notes: OECD Test Guideline 216

e) Plant toxicity:

Endpoint: EC50 - Species: Terrestrial plants 277 mg/kg - Duration h: 336 - Notes: Growth inhibition Method: OECD Test Guideline 208

1,2-benzisothiazolin-3-one

a) Aquatic acute toxicity:

Endpoint: ErC50 - Species: Algae 0.11 mg/L - Duration h: 72 - Notes: Species: Pseudokirchneriella subcapitata OECD TG 201

Endpoint: NOEC - Species: Algae 0.0403 mg/L - Duration h: 72 - Notes: Species: *Pseudokirchneriella subcapitata* OECD TG 201
Endpoint: EC50 - Species: *Daphnia magna* 2.9 mg/L - Duration h: 48 - Notes: Species: *Daphnia magna*; Method: OECD TG 202
Endpoint: LC50 - Species: Fish 2.15 mg/L - Duration h: 96 - Notes: Species: *Oncorhynchus mykiss*; Method: OECD TG 203

c) Bacteria toxicity:

Endpoint: EC50 - Species: Activated sludge 12.8 mg/L - Duration h: 3 - Notes: Method: OECD TG 209

sodium hydroxide

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 189 mg/L - Duration h: 48

Endpoint: EC0 - Species: *Daphnia* = 40.4 mg/L - Duration h: 48 - Notes: Species: *Ceriodaphnia dubia*

Endpoint: LC50 - Species: Fish 125 mg/L - Duration h: 96 - Notes: Species: *Gambusia affinis*

Endpoint: LC50 - Species: Fish 45.4 mg/L - Duration h: 96 - Notes: Species: *Oncorhynchus mykiss*

c) Bacteria toxicity:

Endpoint: EC50 - Species: Bacteria 22 mg/L - Duration h: 0.25 - Notes: Species: *Photobacterium phosphoreum*

12.2. Persistence and degradability

propan-2-ol - CAS: 67-63-0

Biodegradability: Readily biodegradable

Sodium N-lauroylsarcosinate - CAS: 137-16-6

Biodegradability: Readily biodegradable - Duration: 28 d - %: 82 - Notes: ISO 14593

Method: Directive 67/548/EEC Annex V, C.4.B.

ethanol - CAS: 64-17-5

Biodegradability: Readily biodegradable - Test: Solubility in water - Notes: 1000 - 10000 mg/L

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)-ethanone - CAS: 54464-57-2

Biodegradability: Non-readily biodegradable

didecyltrimethylammonium chloride - CAS: 7173-51-5

Biodegradability: Readily biodegradable - Test: Modified Sturm Test - Duration: 28 d - %: 72 - Notes: Method: OECD Test Guideline 301B, concentration: 10 mg/L

Test: Die-Away Test - Duration: 28 d - %: 93.3 - Notes: Concentration: 0,016 mg/L

Test: OECD Confirmatory Test: - Duration: 24 - 70 d - %: 91 - Notes: Method: OECD Test Guideline 303 A

Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides - CAS: 85409-23-0

Biodegradability: Readily biodegradable - Test: OECD 301 B - Duration: 28 d - %: 95.5 - Notes: data on similar substances

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS: 68424-85-1

Test: OECD Confirmatory Test: - %: 90 - Notes: Method: OECD Test Guideline 303 A

Test: Modified SCAS Test - Duration: 7 d - %: 99 - Notes: Method: OECD Test Guideline 302 A

Biodegradability: Readily biodegradable - Test: CO₂ Evolution Test - Duration: 28 d - %: 95.5 - Notes: Method: OECD Test Guideline 301B. Concentration 5 mg / L

1,2-benzisothiazolin-3-one - CAS: 2634-33-5

Biodegradability: Readily biodegradable - Test: OECD 302 B - %: 90

Biodegradability: Readily biodegradable - Test: OECD 303 - %: 80 - Notes: OECD 303 A

12.3. Bioaccumulative potential

propan-2-ol - CAS: 67-63-0

- Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.05
ethanol - CAS: 64-17-5
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient -0.35
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides -
CAS: 85409-23-0
Test: log Pow - Notes: 2.48 (20 °C) calculation method
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS:
68424-85-1
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor -
Duration: 35 d - Notes: BCF: 79 - Concentration: 0,076 mg/L
Test: log Pow - Notes: 2.75 (20 °C) - Method: OECD TG 107 - GLP: yes
1,2-benzisothiazolin-3-one - CAS: 2634-33-5
Bioaccumulation: Not bioaccumulative - Test: log Pow 0.7 - Notes: OECD 117
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 6.62 -
Notes: OECD 305 - Species: fish
- 12.4. Mobility in soil
didecyldimethylammonium chloride - CAS: 7173-51-5
Mobility in soil: Mobile - Notes: Method: US-EPA
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - CAS:
68424-85-1
Mobility in soil: Not mobile - Test: Koc 282624 - Notes: L/kg Kd: 13630, log Kd: 3,13 -
Method: OECD TG 106
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in
force.

SECTION 14: Transport information

- 14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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H330 Fatal if inhaled.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.
 H301 Toxic if swallowed.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.
 H302 Harmful if swallowed.
 H410 Very toxic to aquatic life with long lasting effects.
 H290 May be corrosive to metals.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients
 SECTION 4: First aid measures
 SECTION 8: Exposure controls/personal protection
 SECTION 9: Physical and chemical properties
 SECTION 11: Toxicological information
 SECTION 15: Regulatory information
 SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. 2, H319	Calculation method

This document was prepared by a competent person who has received appropriate training.

Safety Data Sheet

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Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.