

LAVAPIÙ ENERGY HOME – DETERGENT FOR RESISTANT LAUNDRY

Safety Data Sheet dated 26/5/2021, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: Lavapiù Energy Home - Detergent for Resistant Laundry

Trade code: PT1041_HOME

UFI: 7XQ0-20QC-C00E-9MJP

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

Recommended use:

Laundry detergent

1.3. Details of the supplier of the safety data sheet

Company:

Lavapiù S.r.l.

Strada di Circonvallazione, 27

39057 Appiano sulla Strada del Vino

P.I. 02636010213

Tel. 075-5279943

E-mail: remo.falchi@lavapiu.com


1.4. Emergency telephone number


Lavapiù S.r.l. – Phone: +39 075-5279943

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

 Warning, Skin Irrit. 2, Causes skin irritation.

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

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

The classification for the hazard class "Serious Damage to Eyes / Eye Irritation" was obtained by applying the bridging principles of the CLP regulation (Annex I, section 1.1.3) for comparison with the reference formula **PL191214G** as motivated in the declassification file **PT1041** kept by the company. For all other hazard classes the conventional calculation was used as per CLP regulation.

Adverse physicochemical, human health and environmental effects:

No other hazards

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2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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 in accordance with applicable regulations.

Special Provisions:

None

Contains

1,1,6,7-Tetramethyl-6-acetyldecalene (isomers): May produce an allergic reaction.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

2-methyl-2H-isothiazol-3-one (3:1): May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

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:

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Qty	Name	Ident. Number	Classification
>= 7% - < 10%	Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts	CAS: 68411-30-3 EC: 270-115-0 REACH No.: 01-2119489 428-22-xxxx	 3.1/4/Oral Acute Tox. 4 H302 4.1/C3 Aquatic Chronic 3 H412  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318
>= 3% - < 5%	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3 EC: 500-234-8 REACH No.: 01-2119488 639-16-xxxx	 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412  3.3/1 Eye Dam. 1 H318
>= 1% - < 2.5%	Potassium cocoate	CAS: 61789-30-8 EC: 263-049-9	 3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319
>= 1% - < 2.5%	Alcohols, C12-C13 branched and linear, ethoxylated (>=2.5EO)	CAS: 160901-19-9 EC: 931-954-4	 3.1/4/Oral Acute Tox. 4 H302 4.1/C3 Aquatic Chronic 3 H412  3.3/1 Eye Dam. 1 H318
>= 1% - < 2.5%	Poly(oxy-1.2-ethane diyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy-polymer	CAS: 160875-66-1	 3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302
>= 0.1% - < 0.25%	1,1,6,7-Tetramethyl-6-acetyldecalene (isomers)	CAS: 68155-66-8 EC: 268-978-3 REACH No.: 01-2119489 989-04-xxxx	 3.2/2 Skin Irrit. 2 H315  4.1/C1 Aquatic Chronic 1 H410  3.4.2/1 Skin Sens. 1 H317  4.1/C2 Aquatic Chronic 2 H411
14 ppm	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Index number: 613-167-00-5 CAS: 55965-84-9	 3.1/2/Inhal Acute Tox. 2 H330  3.1/2/Dermal Acute Tox. 2 H310  3.1/3/Oral Acute Tox. 3 H301  3.2/1C Skin Corr. 1C H314  3.3/1 Eye Dam. 1 H318  3.4.2/1A Skin Sens. 1A H317

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			 4.1/A1 Aquatic Acute 1 H400 M=100.  4.1/C1 Aquatic Chronic 1 H410 M=100. EUH071
10 ppm	morpholine	Index number: 613-028-00-9 CAS: 110-91-8 EC: 203-815-1	 2.6/3 Flam. Liq. 3 H226  3.2/1B Skin Corr. 1B H314  3.1/4/Oral Acute Tox. 4 H302  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Inhal Acute Tox. 4 H332

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

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

None

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).

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Treatment:

None

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

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.

Don't use empty container before they have been cleaned.

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Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

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)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

morpholine - CAS: 110-91-8

TLV (USA) - STEL: 71.26 mg/m³, 20 ppm

EU - TWA(8h): 36 mg/m³, 10 ppm - STEL: 72 mg/m³, 20 ppm

ACGIH - TWA(8h): 20 ppm - Notes: Skin, A4 - Eye dam, URT irr

DNEL Exposure Limit Values

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

Worker Industry: 170 mg/kg - Consumer: 85 mg/m³ - Exposure: Human Dermal

- Frequency: Long Term, systemic effects

Worker Industry: 12 mg/m³ - Consumer: 3 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 12 mg/m³ - Consumer: 3 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, local effects

Consumer: 0.85 mg/m³ - Exposure: Human Oral - Frequency: Long Term

(repeated)

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Worker Industry: 2750 mg/kg - Consumer: 1650 mg/kg - Exposure: Human

Dermal - Frequency: Long Term, systemic effects - Notes: In riferimento a peso corporeo e giorno

Worker Industry: 175 mg/m³ - Consumer: 52 mg/m³ - Exposure: Human

Inhalation - Frequency: Long Term, systemic effects

Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: In riferimento a peso corporeo e giorno

Worker Industry: 0.132 mg/cm² - Consumer: 0.079 mg/cm² - Exposure:

Human Dermal - Frequency: Long Term, local effects

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PNEC Exposure Limit Values

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

Target: Fresh Water - Value: 0.268 mg/l

Target: Marine water - Value: 0.0268 mg/l

Target: Soil (agricultural) - Value: 0.0167 mg/l

Target: Microorganisms in sewage treatments - Value: 3.43 mg/l

Target: Freshwater sediments - Value: 8.1 mg/kg

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Target: Fresh Water - Value: 0.24 mg/l

Target: Marine water - Value: 0.024 mg/l

Target: Microorganisms in sewage treatments - Value: 10000 mg/l

Target: Freshwater sediments - Value: 0.9168 mg/kg

Target: Marine water sediments - Value: 0.0917 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

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:
Appearance and colour:	Opaque white liquid	--	--
Odour:	Musky Flower	--	--
Odour threshold:	Not Relevant	--	--
pH:	9,5	--	--

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Melting point / freezing point:	Not applicable	--	--
Initial boiling point and boiling range:	>100°C	--	--
Flash point:	Not inflammable ° C	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not inflammable	--	--
Upper/lower flammability or explosive limits:	Not inflammable	--	--
Vapour pressure:	Not applicable	--	--
Vapour density:	Not applicable	--	--
Relative density:	1.027 g/ml	--	--
Solubility in water:	Full	--	--
Solubility in oil:	Partial	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not self-igniting	--	--
Decomposition temperature:	>50°C	--	--
Viscosity:	300 cP	--	--
Explosive properties:	Not explosive	--	--
Oxidizing properties:	Not oxidizing	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Full in water	--	--
Fat Solubility:	Partial	--	--
Conductivity:	Not applicable	--	--
Substance Groups relevant properties	Not applicable	--	--

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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
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
N.A.
Toxicological information of the main substances found in the product:
Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3
 - a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg - Source: OECD Test Guideline 401
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD Test Guideline 402
 - b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Yes - Source: OECD Test Guideline 404
 - c) serious eye damage/irritation:
Test: Eye Irritant - Route: Skin - Species: Rabbit Yes - Source: OECD Test Guideline 405
 - d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: Pig No - Source: OECD Test Guideline 406
 - g) reproductive toxicity:
Test: NOAEL 350 mg/kg - Duration: 2 years - Notes: In riferimento a peso corporeo e giorno
 - i) STOT-repeated exposure:
Test: NOAEL 125 mg/kg - Notes: In riferimento a peso corporeo

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Test: NOAEL 40 mg/kg - Source: Organi bersaglio: sangue, rene, cieco - Notes: In riferimento a peso corporeo e giorno

Test: NOAEL 85 mg/kg - Source: Organi bersaglio: sangue - Notes: In riferimento a peso corporeo e giorno

Toxicological kinetics, metabolism and distribution information:

Test: NOAEL 300 mg/kg - Duration: 20 days - Notes: In riferimento a peso corporeo

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: OECD TG 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OECD TG 402

b) skin corrosion/irritation:

Test: Eye Irritant - Species: Rabbit Yes - Notes: OECD TG 405

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

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Pig No - Notes: OECD TG 406

e) germ cell mutagenicity:

Test: Genotoxicity No

Test: Genotoxicity - Species: Cell No

g) reproductive toxicity:

Test: NOAEL - Species: Rat > 300 mg/kg - Notes: OECD TG 416

i) STOT-repeated exposure:

Test: NOAEL > 225 mg/kg - Notes: OECD TG 408

Toxicological kinetics, metabolism and distribution information:

Test: Teratogenicity - Route: Oral - Species: Rat > 1000 mg/kg - Notes: OECD TG 414

Potassium cocoate - CAS: 61789-30-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant Yes

c) serious eye damage/irritation:

Test: Eye Irritant Yes

d) respiratory or skin sensitisation:

Test: Skin Sensitization No

Alcohols, C12-C13 branched and linear, ethoxylated ($\geq 2.5\text{EO}$) - CAS: 160901-19-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit No

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- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Yes
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: Pig No
- e) germ cell mutagenicity:
Test: Genotoxicity No - Source: Metodo AMES - Notes: Salmonella Typhimurium
- i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat = 50 mg/kg - Duration: 2 years
Poly(oxy-1.2-ethanediyl), .alpha. -(2-propylheptyl)-.omega.-hydroxy-polymer - CAS: 160875-66-1
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 500 mg/kg
- c) serious eye damage/irritation:
Test: Eye Corrosive - Species: Rabbit Positive - Source: Linea guida OECD 405

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

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

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1 mg/l - Duration h: 96 - Notes: Static Test; US EPA 1975

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48 - Notes: OECD Test Guideline 202

b) Aquatic chronic toxicity:

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Endpoint: NOEC - Species: Fish = 1 mg/l - Duration h: 672 - Notes: Velocità di crescita; Ecosistema modello

Endpoint: NOEC - Species: Daphnia = 1 mg/l - Duration h: 768 - Notes: Ecosistema modello (valore della letteratura)

Endpoint: NOEC - Species: Algae > 4 mg/l - Duration h: 672 - Notes: Ecosistema modello (valore della letteratura)

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 mg/l - Notes: OECD TG 203

Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48 - Notes: OECD TG 202

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 0.14 mg/l - Notes: 28 giorni Oncorhynchus mykiss

Endpoint: NOEC - Species: Aquatic invertebrates = 0.27 mg/l - Notes: 21 giorni Daphnia magna

Endpoint: NOEC - Species: Daphnia = 0.1 mg/l - Duration h: 504 - Notes: OECD TG 211

Endpoint: EC10 - Species: Bacteria > 10000 mg/l

e) Plant toxicity:

Endpoint: EC50 - Species: Algae > 10 mg/l - Duration h: 72 - Notes: OECD TG 201

Potassium cocoate - CAS: 61789-30-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Crustaceans > 1 mg/l - Duration h: 72

Alcohols, C12-C13 branched and linear, ethoxylated ($\geq 2.5EO$) - CAS: 160901-19-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 1 mg/l - Duration h: 72 - Notes: *Desmodesmus subspicatus* OECD TG 201

Endpoint: EC50 - Species: Bacteria = 140 mg/l - Notes: Fango attivo

b) Aquatic chronic toxicity:

Endpoint: EC10 - Species: Fish > 0.10 mg/l - Notes: Cavedano americano

Endpoint: EC10 - Species: Daphnia = 0.10 mg/l - Notes: Pulce d'acqua grande

Endpoint: NOEC - Species: Bodies of land = 220 mg/kg - Notes: *Eisenia foetida*

Endpoint: NOEC = 10 mg/kg - Notes: *Lepidium sativum* (agretto) OECD TG 208

Poly(oxy-1,2-ethanediyl), .alpha. -(2-propylheptyl)-.omega.-hydroxy-polymer - CAS: 160875-66-1

a) Aquatic acute toxicity:

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Endpoint: EC50 - Species: Daphnia 10 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC0 - Species: Algae 10 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

12.2. Persistence and degradability

The surfactants contained in this product comply with biodegradability criteria as laid down in regulation (EC) no. 648/2004 on detergents. All supporting data can be made available to the relevant authorities of Member States and will be provided, upon their express request or upon request of a producer of the formulation, to the aforementioned authorities

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

Biodegradability: Readily biodegradable - Test: OECD 301B - CO2 EVOLUTION TEST - Duration: 29 days - %: 85 - Notes: Espresso in % di biodegradabilità

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Biodegradability: Readily biodegradable - Test: OECD 301B - CO2 EVOLUTION TEST - Duration: 29 days - Notes: >70% aerobico

Potassium cocoate - CAS: 61789-30-8

Biodegradability: Data not available

Alcohols, C12-C13 branched and linear, ethoxylated ($\geq 2.5\text{EO}$) - CAS: 160901-19-9

Biodegradability: Readily biodegradable - Test: OECD 301B - CO2 EVOLUTION TEST - Duration: 28 days - Notes: >60% aerobico

12.3. Bioaccumulative potential

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 2-1000 - Notes: OECD 305E

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Bioaccumulation: Not bioaccumulative - Test: Log Kow - Partition coefficient 0.3 - Notes: La sostanza è facilmente biodegradabile ed ha una bassa tossicità acquatica

Potassium cocoate - CAS: 61789-30-8

Bioaccumulation: Data not available

Alcohols, C12-C13 branched and linear, ethoxylated ($\geq 2.5\text{EO}$) - CAS: 160901-19-9

Bioaccumulation: Unlikely - Notes: Valore della letteratura

12.4. Mobility in soil

Benzenesulfonic acid, C10-13 alkyl derivs., sodium salts - CAS: 68411-30-3

Mobility in soil: Low mobility - Notes: Su suolo/fango di decantazione

Alcohols, C12-C14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Mobility in soil: Medium mobility - Test: Koc 191 - Notes: Moderatamente mobile nei terreni

Potassium cocoate - CAS: 61789-30-8

Mobility in soil: Data not available

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Alcohols, C12-C13 branched and linear, ethoxylated ($\geq 2.5\text{EO}$) - CAS: 160901-19-9
 Mobility in soil: Not mobile - Test: Koc - Notes: >5000 Forte assorbimento del suolo

- 12.5. Results of PBT and vPvB assessment
 vPvB Substances: None - PBT Substances: None
- 12.6. 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
 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
 N.A.
- 14.6. Special precautions for user
 N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
 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) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)

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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)

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

None

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

Text of phrases referred to under heading 3:

H302 Harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H330 Fatal if inhaled.
H310 Fatal in contact with skin.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
EUH071 Corrosive to the respiratory tract.
H226 Flammable liquid and vapour.

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H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Dermal	Acute toxicity (dermal), 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/Dermal	Acute toxicity (dermal), Category 4
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. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
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. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
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
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Classified by application of the bridge principles of the CLP regulation by comparison with the tested reference formula (see section 2.1)
Aquatic Chronic 3, H412	Calculation method

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

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.



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STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.