

Safety Data Sheet according to Reg. (EC) n.1907/2006 (REACH) - SOFT MATIK NEW

Safety Data Sheet dated 13/10/2023, version 4 (replaces version 3)

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

1.1. Product identifier

Mixture identification:

Trade name: **SOFT MATIK NEW**
Trade code: G08-005 / 006
UFI: T2Q1-R04A-G00X-FEH3

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

Recommended use:

Liquid detergent for textiles. For professional use.

Products categories: PC35 - washing and cleaning products. This category includes water and solvent based products.

Use at industrial sites (IS). Widespread use by professional workers (PW).

Uses advised against:

Do not use for purposes other than those indicated.

1.3. Details of the supplier of the safety data sheet

Company:

G.B.M. ELETTROCHIMICA s.r.l.

Via Fiumicino San Mauro, 120/130 - 47039 – Savignano Sul Rubicone (FC) Italy

tel +39 0541 930058

e-mail: gbm@gbmprodottichimici.it

web site: www.gbmprodottichimici.it

1.4. Emergency telephone number

+39 0541-930058 (Office Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Irrit. 2, H315 Causes skin irritation.

Eye Dam. 1, H318 Causes serious eye damage.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash hands thoroughly with water after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing/Protect eyes/face.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 In case of malaise, contact a POISON CENTRE/doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Coco diethanolamide

Benzenesulphonic acid, sodium salts.

Sodium lauryl ether sulfate

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one: May produce an allergic reaction.

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

Ingredients according to EC Detergents Regulation 648/2004:

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

Qty	Name	Ident. Number	Classification
$\geq 5\%$ - $< 10\%$	Fatty acids, coco, potassium salt	CAS: 61789-30-8 EC: 263-049-9	 3.3/2 Eye Irrit. 2 H319  3.2/2 Skin Irrit. 2 H315
$\geq 1\%$ - $< 5\%$	Sodium lauryl ether sulfate	CAS: 68891-38-3 EC: 500-234-8 REACH No.: 01- 2119488639- 16-XXXX	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412 Specific Concentration Limits: C $\geq 10\%$: Eye Dam. 1 H318 5% \leq C $< 10\%$: Eye Irrit. 2 H319
$\geq 1\%$ - $< 5\%$	Coco diethanolamide	EC: 931-329-6 REACH No.: 01- 2119490100- 53-XXXX	 3.3/1 Eye Dam. 1 H318  3.2/2 Skin Irrit. 2 H315  4.1/C2 Aquatic Chronic 2 H411
$\geq 1\%$ - $< 5\%$	Benzenesulphonic acid, sodium salts.	CAS: 68411-30-3 EC: 270-115-0 REACH No.: 01- 2119489428-	 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315

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		22-XXXX	 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412
10 ppm	Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	Index number: 613-167-00-5 CAS: 55965-84-9 EC: 611-341-5	 3.1/1/Dermal Acute Tox. 1 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  3.1/2/Inhal Acute Tox. 2 H330  4.1/A1 Aquatic Acute 1 H400 M=100.  4.1/C1 Aquatic Chronic 1 H410 M=100. EUH071 Specific Concentration Limits: C >= 0,6%: Eye Dam. 1 H318 C >= 0,6%: Skin Corr. 1C H314 0,06% <= C < 0.6%: Skin Irrit. 2 H315 0,06% <= C < 0.6%: Eye Irrit. 2 H319 C >= 0,0015%: Skin Sens. 1A H317
9 ppm	sodium hydroxide; caustic soda	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH No.: 01-2119457892-27-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.

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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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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).

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.

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- 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.
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
Store the product only in its original closed containers, in a cool, dry and well-ventilated areas at temperatures below 0 °C and not higher than 40 °C.
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
sodium hydroxide; caustic soda - CAS: 1310-73-2
ACGIH - STEL: Ceiling 2 mg/m³
- DNEL Exposure Limit Values
- Sodium lauryl ether sulfate - CAS: 68891-38-3
Worker Professional: 2750 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: SDS
Worker Professional: 175 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: SDS
Consumer: 1650 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: SDS
Consumer: 15 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: SDS
Worker Professional: 0.132 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects - Notes: SDS
Consumer: 52 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: SDS
Consumer: 0.079 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects - Notes: SDS
- Coco diethanolamide
Consumer: 6.25 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 21.73 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 73.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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Worker Professional: 4.16 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2.5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3

Worker Professional: 85 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 6 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 42.5 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 1.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 0.425 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

sodium hydroxide; caustic soda - CAS: 1310-73-2

Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Endpoint: Irritation (respiratory tract) - Notes: ECHA

Worker Professional: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Endpoint: Irritation (respiratory tract) - Notes: ECHA

PNEC Exposure Limit Values

Sodium lauryl ether sulfate - CAS: 68891-38-3

Target: Fresh Water - Value: 0.24 mg/l - Notes:: SDS

Target: Marine water - Value: 0.024 mg/l - Notes:: SDS

Target: Freshwater sediments - Value: 0.9168 mg/kg dry weight - Notes:: SDS

Target: Marine water sediments - Value: 0.0917 mg/kg dry weight - Notes:: SDS

Target: Soil (agricultural) - Value: 7.5 mg/kg dry weight - Notes:: SDS

Target: Intermittent release - Value: 0.071 mg/l - Notes:: SDS

Target: Sewage treatment plant - Value: 10000 mg/l - Notes:: SDS

Coco diethanolamide

Target: Fresh Water - Value: 0.007 mg/l

Target: Marine water - Value: 0.0007 mg/l

Target: Freshwater sediments - Value: 0.195 mg/kg

Target: Marine water sediments - Value: 0.0195 mg/kg

Target: Microorganisms in sewage treatments - Value: 830 mg/l

Target: Intermittent release - Value: 0.024 mg/l

Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3

Target: Fresh Water - Value: 0.268 mg/l

Target: Marine water - Value: 0.0268 mg/l

Target: Intermittent release - Value: 0.0167 mg/l

Target: Sewage treatment plant - Value: 3.43 mg/l

Target: Freshwater sediments - Value: 8.1 mg/kg dry weight

Target: Marine water sediments - Value: 6.8 mg/kg dry weight

Target: Soil - Value: 35 mg/kg dry weight

8.2. Exposure controls

Eye protection:

Eye glasses.

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 resistant to chemicals. The choice of hand PPE must be made on the basis of its better resistance to chemical agents, taking into account the results of tests

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obtained in accordance with EN 374 Because of the great diversity of types, you should follow the instructions of the manufacturers. Suitable materials for short contact (recommended: at least protection index 2, corresponding to > 30 minutes permeation time according to EN 374). Butyl rubber - 0.7 mm thick. Suitable materials for direct and prolonged contact (recommended: protection index 6, corresponding > 460 minutes of permeation time according to EN 374) nitro-caoutchouc (NBR) - 0.4 mm thick.

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:	Greenish blue	--	--
Odour:	CHARACTERISTIC FRAGRANT NOTE	--	--
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:	NOT FLAMMABLE/ >100 ° C	--	--
Auto-ignition temperature:	NOT AUTO FLAMMABLE	--	--
Decomposition temperature:	N.A.	--	--
pH:	9,4	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	COMPLETE	--	--
Solubility in oil:	INSOLUBLE	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.01 ± 0.05 kg/l	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

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9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	ABSENT	--	--
Miscibility:	MISCIBLE	--	--
Oxidizing properties:	ABSENT	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

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

Under normal conditions of storage and use, are not known hazardous decomposition products.

SECTION 11: Toxicological information

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

Toxicological information of the product:

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a) acute toxicity

Not classified

No data available for the product

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

No data available for the product

e) germ cell mutagenicity

Not classified

No data available for the product

f) carcinogenicity

Not classified

No data available for the product

g) reproductive toxicity

Not classified

No data available for the product

h) STOT-single exposure

Not classified

No data available for the product

i) STOT-repeated exposure

Not classified

No data available for the product

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j) aspiration hazard

Not classified

No data available for the product

Toxicological information of the main substances found in the product:

Fatty acids, coco, potassium salt - CAS: 61789-30-8

a) acute toxicity:

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

b) skin corrosion/irritation:

Positive - Source: N.A. - Causes skin irritation

c) serious eye damage/irritation:

Positive - Source: N.A. - Causes serious eye damage

Sodium lauryl ether sulfate - CAS: 68891-38-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg bw - Source: Value of literature - Based on available data, the classification criteria are not met

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg bw - Source: Value of literature - Based on available data, the classification criteria are not met

b) skin corrosion/irritation:

Species: Rabbit Positive - Source: OECD TG 404 - Causes skin irritation

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Positive - Source: Value of literature - Causes serious eye damage

Test: Eye Irritant - Species: Rabbit Positive - Source: Value of literature - Notes: in concentrations ≥ 5 - $< 10\%$ w/w - Causes eye irritation

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat > 225 mg/kg di b.w./day - Source: Value of literature - Notes: target organs: liver. - symptoms: gastrointestinal disorders, liver disorders

Coco diethanolamide

a) acute toxicity:

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

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

b) skin corrosion/irritation:

Test: Skin Irritant Positive - Causes skin irritation

c) serious eye damage/irritation:

Test: Eye Corrosive Positive - Causes serious eye damage

Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1080 mg/kg - Harmful if ingested

Route: Inhalation

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Based on available data, the classification criteria are not met

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Yes - Causes skin irritation

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Yes - Causes serious eye damage

d) respiratory or skin sensitisation:

Test: Maximisation Test - Species: Guinea pig Negative - Based on available data, the classification criteria are not met

e) germ cell mutagenicity:

Test: In vitro genotoxicity Negative - Based on available data, the classification criteria are not met

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Test: In vivo genotoxicity Negative - Based on available data, the classification criteria are not met

f) carcinogenicity:

g) reproductive toxicity:

Based on available data, the classification criteria are not met

Test: Teratogenicity - Based on available data, the classification criteria are not met

h) STOT-single exposure:

Negative - Based on available data, the classification criteria are not met

i) STOT-repeated exposure:

Negative - Based on available data, the classification criteria are not met

Test: NOAEL - Route: Oral - Species: Rat = 125 mg/kg di b.w./day - Duration: 28d

Test: NOAEL - Species: Rat = 40 mg/kg di b.w./day - Duration: 6M

Test: NOAEL - Species: Rat = 85 mg/kg di b.w./day - Duration: 9M

Toxicological kinetics, metabolism and distribution information:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one - CAS: 55965-84-9

a) acute toxicity:

Test: LC50 - Route: Inhalation of dust and fog - Species: Rat = 0.31 mg/l - Duration: 4h
- Source: SDS

b) skin corrosion/irritation:

Test: Skin Corrosive Yes - Source: SDS - Causes severe skin burns

c) serious eye damage/irritation:

Test: Eye Corrosive Yes - Source: SDS - Causes serious eye damage

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Yes - Source: OECD TG 406 - Notes: Maximisation Test; GLP: yes. - May cause sensitisation in contact with skin

Test: Skin Sensitization - Route: Skin - Species: Mouse Yes - Source: OECD TG 429 - Notes: Local lymphonode test (LLNA); GLP: yes. - The product is a skin sensitiser, subcategory 1A.

sodium hydroxide; caustic soda - CAS: 1310-73-2

b) skin corrosion/irritation:

Test: Skin Corrosive Yes - Causes severe skin burns

c) serious eye damage/irritation:

Test: Eye Corrosive Yes - Causes serious eye damage

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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The product is classified: Aquatic Chronic 3 - H412

Fatty acids, coco, potassium salt - 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: Algae > 1 mg/l - Duration h: 48

Sodium lauryl ether sulfate - CAS: 68891-38-3

a) Aquatic acute toxicity:

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Endpoint: LC50 - Species: Fish > 1-10 mg/l - Notes: Brachydanio rerio; flow-through test; OECD TG 203.

Endpoint: EC50 - Species: Daphnia > 1-10 mg/l - Duration h: 48 - Notes: Daphnia magna; mortality; flow-through test; OECD TG 204

Endpoint: EC50 - Species: Algae > 10-100 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus; growth rate; static test; OECD TG 201

b) Aquatic chronic toxicity:

Endpoint: NOEC (21d) - Species: Daphnia > 0.1-1 mg/l - Notes: Daphnia magna; reproduction rate; flow-through test; OECD TG 211; value of literature

Endpoint: NOEC (28D) - Species: Fish > 0.1-1 mg/l - Notes: Oncorhynchus mykiss; mortalità; flow-through test; OECD TG 204; value of literature

c) Bacteria toxicity:

Endpoint: EC10 > 10.000 mg/l - Notes: Pseudomonas putida; chromosome multiplication inhibition test

d) Terrestrial toxicity:

Endpoint: NOEC (56d) - Species: Earthworms = 750 mg/kg bw - Notes: FC009

e) Plant toxicity:

Endpoint: NOEC - Species: Algae = 0.93 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus; growth rate; static test; OECD TG 201

Coco dietheanolamide

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.4 mg/l - Duration h: 96

Endpoint: EC50 - Species: Crustaceans = 3.2 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 3.9 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 1 mg/l

Endpoint: NOEC - Species: Crustaceans = 0.07 mg/l

Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1-10 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1-10 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC (196d) - Species: Fish > 0.1-1 mg/l

Endpoint: NOEC (21d) - Species: Daphnia > 1-10 mg/l

d) Terrestrial toxicity:

Endpoint: EC10 (28D) = 71.7 mg/kg

Endpoint: EC10 = 107.6 mg/kg

Endpoint: NOEC - Species: Terrestrial plants = 100 mg/kg

Endpoint: EC10 - Species: Terrestrial plants = 86 mg/kg

Endpoint: NOEC - Species: Terrestrial plants = 52 mg/kg

e) Plant toxicity:

Endpoint: EC50 - Species: Algae > 10-100 mg/l - Duration h: 72

Endpoint: NOEC (28D) > 4 mg/l

Endpoint: EC50 > 1-10 mg/l - Duration h: 168

g) Toxicity to aquatic invertebrates:

Endpoint: NOEC (32d) - Species: Aquatic invertebrates > 1-10 mg/l

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one - CAS: 55965-84-9

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1.02 mg/l - Duration h: 48 - Notes: Daphnia magna.

Endpoint: EC50 - Species: Algae = 0.379 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata; OECD TG 201

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- Endpoint: LC50 - Species: Fish = 0.58 mg/l - Duration h: 96 - Notes: Danio rerio.
Endpoint: M Factor (acute) = 100
- b) Aquatic chronic toxicity:
Endpoint: EC10 - Species: Algae = 0.188 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata; OECD TG 201
Endpoint: M Factor (Chronic) = 100
- sodium hydroxide; caustic soda - CAS: 1310-73-2
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 2 180 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48 - ECHA
- 12.2. Persistence and degradability
None
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Biodegradability: The product contains only readily biodegradable surfactants meet the criteria laid down in Regulation detergents EU (EC/648/2004).
Fatty acids, coco, potassium salt - CAS: 61789-30-8
Biodegradability: Biodegradable
Sodium lauryl ether sulfate - CAS: 68891-38-3
Biodegradability: Readily biodegradable - Duration: 28d - %: 70 - Notes: aerobic; OECD TG 301
Biodegradability: Biodegradable - Duration: 41d - %: 60 - Notes: anaerobic; ISO project; value of literature
Coco diethanolamide
Biodegradability: Biodegradable - %: 92.5
Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3
Biodegradability: Readily biodegradable - Duration: 28d - %: 60
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one - CAS: 55965-84-9
Biodegradability: Non-readily biodegradable
- 12.3. Bioaccumulative potential
Fatty acids, coco, potassium salt - CAS: 61789-30-8
Bioaccumulation: Not bioaccumulative
Sodium lauryl ether sulfate - CAS: 68891-38-3
Bioaccumulation: Bioaccumulation is unlikely to occur - Notes: The substance is readily biodegradable and has low aquatic toxicity. Group observation.
Coco diethanolamide
Test: Log Kow 3.75
Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3
Bioaccumulation: Does not accumulate significantly in organisms - Test: BCF - Bioconcentration factor 2-1000 - Duration: 192h
- 12.4. Mobility in soil
Sodium lauryl ether sulfate - CAS: 68891-38-3
Mobility in soil: Adsorption in soil - Test: Log Koc 0.34 - Notes: calculated; very mobile in soils
Mobility in soil: Adsorption in soil - Test: Koc 2.2 - Notes: calculated; very mobile in soils
Coco diethanolamide
Mobility in soil: The substance is soluble and mobile in water and soil
Benzenesulphonic acid, sodium salts. - CAS: 68411-30-3
Mobility in soil: 9
- 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 $\geq 0.1\%$

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- 12.7. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. 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
ADN-Environmentally hazardous in tank-vessels:
N.A.
- 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)

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

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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:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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
Acute Tox. 1	3.1/1/Dermal	Acute toxicity (dermal), Category 1
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/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 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. 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

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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 Dam. 1, H318	Calculation method
Aquatic Chronic 3, H412	Calculation method

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.
STOT:	Specific Target Organ Toxicity.



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TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.