

**Safety Data Sheet according to Reg. (EC) n.1907/2006 (REACH) -  
DEO SANY**

Safety Data Sheet dated 21/2/2024, version 4

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

## 1.1. Product identifier

Mixture identification:

Trade name:

**DEO SANY**

Trade code:

G04-019 / 020

UFI:

NGE2-U08X-F003-3HKX

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

Recommended use:

Sanitizing, whitening, for surfaces and fabrics.

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

**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](mailto:gbm@gbmprodottichimici.it)**web site:** [www.gbmprodottichimici.it](http://www.gbmprodottichimici.it)

## 1.4. Emergency telephone number

+39 0541-930058

**SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Acute Tox. 4, H332 Harmful if inhaled.

Skin Irrit. 2, H315 Causes skin irritation.

Eye Dam. 1, H318 Causes serious eye damage.

Skin Sens. 1, H317 May cause an allergic skin reaction.

Aquatic Chronic 2, H411 Toxic 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:

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing vapours.

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P264 Wash hands thoroughly with water after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/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.  
P312 In case of malaise, contact a POISON CENTRE/doctor.  
P391 Collect spillage.

**Special Provisions:**

None

**Contains**

2-butoxyethanol; ethylene glycol monobutyl ether  
Ethoxylated alcohol  
Coco diethanolamide  
Orange, sweet, ext.  
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:
























15-30%: non-ionic surfactants.

Other comp.: disinfectants (DCPP), mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazole-3-one





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

Qty	Name	Ident. Number	Classification
$\geq 20\%$ - $< 30\%$	2-butoxyethanol; ethylene glycol monobutyl ether	Index 603-014-00-0 number: CAS: 111-76-2 EC: 203-905-0 REACH No.: 01- 2119475108- 36-0005	 3.1/3/Inhal Acute Tox. 3 H331  3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral 1200 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l
$\geq 10\%$ - $< 20\%$	Ethoxylated alcohol	CAS: 69011-36-5	 3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302
$\geq 5\%$ - $< 10\%$	Coco diethanolamide	EC: 931-329-6 REACH No.: 01-	 3.3/1 Eye Dam. 1 H318

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		2119490100-53-XXXX	 3.2/2 Skin Irrit. 2 H315  4.1/C2 Aquatic Chronic 2 H411
>= 1% - < 5%	Orange, sweet, ext.	CAS: 8028-48-6 EC: 232-433-8 REACH No.: 01-2119493353-35-XXXX	 2.6/3 Flam. Liq. 3 H226  3.10/1 Asp. Tox. 1 H304  3.2/2 Skin Irrit. 2 H315  3.4.2/1 Skin Sens. 1 H317  4.1/C2 Aquatic Chronic 2 H411
>= 0.5% - < 1%	5-chloro-2-(4-chlorophenoxy)phenol; [DCPP]	Index number: 605-023-00-5 CAS: 3380-30-1 EC: 429-290-0	 3.3/1 Eye Dam. 1 H318  4.1/A1 Aquatic Acute 1 H400 M=10.  4.1/C1 Aquatic Chronic 1 H410 M=10.
>= 0.1% - < 0.25%	2,2'-iminodiethanol; diethanolamine	Index number: 603-071-00-1 CAS: 111-42-2 EC: 203-868-0 REACH No.: 01-2119488930-28-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318  3.2/2 Skin Irrit. 2 H315  3.7/2 Repr. 2 H361  3.9/2 STOT RE 2 H373
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.

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			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
10 ppm	triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol	Index number: 604-070-00-9 CAS: 3380-34-5 EC: 222-182-2	 3.3/2 Eye Irrit. 2 H319  3.2/2 Skin Irrit. 2 H315  4.1/A1 Aquatic Acute 1 H400 M=100.  4.1/C1 Aquatic Chronic 1 H410 M=100.

**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. 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 induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show the packing or label.

**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:

Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media:

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Water.

Carbon dioxide (CO<sub>2</sub>).

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Use localized ventilation system.

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

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DEO SANY****SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

EC - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: Skin

UE - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: N.A.

ACGIH - TWA(8h): 20 ppm - Notes: N.A.

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - Notes: N.A.

**DNEL Exposure Limit Values**

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Worker Professional: 246 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects - Endpoint: Irritation (respiratory tract)

Consumer: 6.3 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity

Consumer: 147 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects - Endpoint: Irritation (respiratory tract)

Consumer: 59 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity

Worker Professional: 1091 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Endpoint: Acute toxicity

Consumer: 426 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Endpoint: Acute toxicity

Worker Professional: 98 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity

Consumer: 26.7 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects - Endpoint: Acute toxicity

**Coco diethanolamide**

Consumer: 6.25 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 21.73 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 73.4 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5

Worker Professional: 3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity

Worker Professional: 2.8 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity

**PNEC Exposure Limit Values**

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Target: Fresh Water - Value: 8.8 mg/l - Type of hazard: Danger to aquatic organisms

Target: Marine water - Value: 0.88 mg/l - Type of hazard: Danger to aquatic organisms

Target: Freshwater sediments - Value: 34.6 mg/kg dry weight - Type of hazard: Danger to aquatic organisms

Target: Marine water sediments - Value: 3.46 mg/kg dry weight - Type of hazard: Danger to aquatic organisms

Target: Intermittent release - Value: 26.4 mg/l - Type of hazard: Danger to aquatic organisms

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Target: Sewage treatment plant - Value: 463 mg/l - Type of hazard: Danger to aquatic organisms

Target: Secondary poisoning - Value: 20 mg/kg - Type of hazard: Hazard for predators

Target: Soil - Value: 2.33 mg/kg dry weight - Type of hazard: Danger to terrestrial organisms

**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

**2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2**

Target: Fresh Water - Value: 21 - Type of hazard: Danger to aquatic organisms -

Notes:: ECHA

Target: Intermittent release (fresh water) - Value: 95 - Type of hazard: Danger to aquatic organisms - Notes:: ECHA

Target: Marine water - Value: 2 - Type of hazard: Danger to aquatic organisms - Notes:: ECHA

Target: Sewage treatment plant - Value: 100 - Type of hazard: Danger to aquatic organisms - Notes:: ECHA

Target: Freshwater sediments - Value: 96 - Type of hazard: Danger to aquatic organisms - Notes:: ECHA

Target: Marine water sediments - Value: 9.2 - Type of hazard: Danger to aquatic organisms - Notes:: ECHA

Target: Soil - Value: 1.63 - Type of hazard: Danger to terrestrial organisms - Notes:: ECHA

Target: Secondary poisoning - Value: 1.04 - Type of hazard: Hazard for predators - Notes:: ECHA

**triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5**

Target: Fresh Water - Value: 0.843 µg/L

Target: Marine water - Value: 0.169 µg/L

Target: Freshwater sediments - Value: 1 mg/kg dry weight

Target: Marine water sediments - Value: 0.1 mg/kg dry weight

Target: Intermittent release - Value: 0.04 µg/L

Target: Sewage treatment plant - Value: 110 µg/L

Target: Soil - Value: 0.196 mg/kg dry weight

**8.2. Exposure controls****Eye protection:**

Eye glasses.

**Protection for skin:**

Chemical protection clothing.

**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 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 to > 460 minutes of permeation time according to EN 374) nitro-caoutchouc (NBR) - 0.4 mm thick.

**Respiratory protection:**

Use adequate protective respiratory equipment.



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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:	light straw-yellow	--	--
Odour:	CHARACTERISTIC OF CITRUS FRUITS	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	Not Relevant	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	Not Relevant	--	--
Flash point:	Not Relevant	--	--
Auto-ignition temperature:	NO AUTO FLAMMABLE	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	9,1	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	COMPLETE	--	--
Solubility in oil:	INSOLUBLE	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Density and/or relative density:	0.99 ± 0.05 kg/l	--	--
Relative vapour density:	Not Relevant	--	--

**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**





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- 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  
When heated or in case of fire can be released vapors potentially dangerous to health.

**SECTION 11: Toxicological information**

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

Toxicological information of the product:

DEO SANY

- a) acute toxicity  
The product is classified: Acute Tox. 4 H332  
ATEmix - Inhalation (Vapours) 15 mg/l
- 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  
The product is classified: Skin Sens. 1 H317
- 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
- j) aspiration hazard  
Not classified  
No data available for the product

Toxicological information of the main substances found in the product:

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

- a) acute toxicity  
ATE - Oral 1200 mg/kg bw  
ATE - Inhalation (Vapours) 3 mg/l  
Test: STA - Route: Oral - Species: Rat = 1200 mg/kg bw  
Test: STA - Route: Inhalation Vapour - Species: Rat = 3 mg/l  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg bw - Source: OECD TG 402

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Test: NOAEL(C) - Route: Oral - Species: Rat (male) 2 69 mg/kg dry weight - Duration: 90d - Source: OECD TG 408 - Notes: Subacute toxicity

Test: NOAEL(C) - Route: Oral - Species: Rat (female) 2 82 mg/kg dry weight - Duration: 90d - Source: OECD TG 408 - Notes: Subacute toxicity

Test: NOAEL(C) - Route: Skin - Species: Rabbit > 150 mg/kg di b.w./day - Duration: 90d - Source: OECD TG 411 - Notes: Subacute toxicity

Test: LOAEL(C) - Route: Inhalation - Species: Rat = 62.5 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant Positive - Causes skin irritation

c) serious eye damage/irritation:

Test: Eye Irritant Positive - Causes severe eye irritation

d) respiratory or skin sensitisation:

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

e) germ cell mutagenicity:

Test: In vitro genotoxicity Negative

Ethoxylated alcohol - CAS: 69011-36-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 300-2000 mg/kg bw

c) serious eye damage/irritation:

Route: Eyes - Species: Rabbit Positive

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

5-chloro-2-(4-chlorophenoxy)phenol; [DCPP] - CAS: 3380-30-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg bw - Source: OECD TG 423

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

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative - Source: OECD TG 404 - Based on available data, the classification criteria are not met

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Positive - Source: OECD TG 405 - Causes serious eye damage

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative - Not sensitizing

e) germ cell mutagenicity:

Species: Mammalian 3 - The substance was not found to be mutagenic to bacteria. A mutagenicity test using mammalian cells reported uncertain results. Substances with similar structural characteristics have not given mutagenic effect. The substance was not mutagenic in mamm

f) carcinogenicity:

Species: Mouse Positive - In long-term studies in mice where the substance was administered in the diet by a probe, a carcinogenic effect was detected. The effect is caused by a specific animal mechanism that has no human counterpart. All available information does not provid

g) reproductive toxicity:

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Test: Reproductive Toxicity Negative - Results of animal studies show no effects of impairment of fertility. The product has not been tested. Claims are derived from substances/products of similar composition or structure.

Test: Teratogenicity Negative - In animal experiments the substance did not cause malformations. The product was not tested. Claims are derived from substances/products of similar composition or structure.

i) STOT-repeated exposure:

Positive - The substance may damage the liver following repeated oral administration of large quantities, as shown by animal experiments. Prolonged oral administration of the substance may damage the kidneys.

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) acute toxicity:

Test: LC50

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 sensitizer, subcategory 1A.

triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5

a) acute toxicity:

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

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

b) skin corrosion/irritation:

Test: Skin Irritant Positive - Causes skin irritation

c) serious eye damage/irritation:

Test: Eye Irritant Positive - Causes severe eye irritation

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 2 - H411

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

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Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 - Notes: Daphnia magna.

Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72 - Notes:

Pseudokirchneriella subcapitata; OECD TG 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 100 mg/l - Notes: Brachydanio rerio

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

5-chloro-2-(4-chlorophenoxy)phenol; [DCPP] - CAS: 3380-30-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.7 mg/l - Duration h: 96 - Notes: Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static) - Indications of toxic action refer to the concentration determined analytically. Toxic effect at concentrations close to water solubility.

Endpoint: EC50 - Species: Aquatic invertebrates = 0.32 mg/l - Duration h: 48 - Notes: Daphnia magna (OECD - Guideline 202, Part 1, static) - The indications of toxic action refer to the nominal concentration. Toxic effect at near concentrations of water solubility

Endpoint: EC50 - Species: Plantas acuáticas = 0.038 mg/l - Duration h: 72 - Notes: (growth rate) Desmodium subspicatus (OECD Guideline 201, static) - The indications of toxic action refer to the nominal concentration. Toxic effect at near concentrations of water solubility

Endpoint: EC50 - Species: Activated sludge = 8 mg/l - Duration h: 3 - Notes: domestic (OECD - guideline 209, static) - The indications of toxic action refer to the nominal concentration.

Endpoint: LC50 (14d) - Species: MICRORGANISMI TER. = 693 mg/kg bw - Notes: Eisenia foetida (OECD - guideline 207, artificial soil) - The indications of toxic action refer to the nominal concentration.

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Plantas acuáticas = 0.0093 mg/l - Duration h: 72 - Notes: (growth rate) Desmodium subspicatus (OECD Guideline 201, static) - Indications of toxic action refer to the concentration determined analytically.

Endpoint: NOEC (96d) - Species: Fish = 34.1 µg/L - Notes: Oncorhynchus mykiss (OPP 72-4 (EPA Guideline), Flow.) - Indications of toxic action refer to the concentration determined analytically. The product has not been tested. Claims are derived from substances/products of similar composition or structure.

Endpoint: NOEC (21d) - Species: Aquatic invertebrates = 0.22 mg/l - Notes: Daphnia magna (OECD - guideline 211, semi-static)

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96 - ECHA

Endpoint: EC50 - Species: Aquatic invertebrates = 30.1 mg/l - Duration h: 48 - ECHA

Endpoint: EC50 - Species: Freshwater algae = 9.5 mg/l - Duration h: 72 - ECHA

Endpoint: EC50 - Species: Seawater algae = 86.96 mg/l - Duration h: 72 - ECHA

b) Aquatic chronic toxicity:

Endpoint: NOEC (21d) - Species: Aquatic invertebrates = 780 µg/L - ECHA

d) Terrestrial toxicity:

Endpoint: EC10 - Species: MICRORGANISMI = 1 GL - Duration h: 0.5 - ECHA

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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

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

triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.54 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.427 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1.61 µg/L - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 34.1 µg/L - Duration h: 2304

Endpoint: NOEC - Species: Daphnia = 0.04 mg/l - Duration h: 504

f) Effects in sewage plants:

Endpoint: EC50 - Species: Aquatic micro-organisms = 11 mg/l - Duration h: 3

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).

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Biodegradability: Readily biodegradable - Duration: 28d - %: 90.4 - Notes: OECD TG 301 B

Coco diethanolamide

Biodegradability: Biodegradable - %: 92.5

5-chloro-2-(4-chlorophenoxy)phenol; [DCPP] - CAS: 3380-30-1

Biodegradability: Hardly biodegradable - Test: Biodegradation in water - Notes:

According to OECD criteria

Biodegradability: Considerations on disposal: - Notes: 50 - 60 % theoretical value CO<sub>2</sub> formation (61 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, unadapted)

Biodegradability: Stability in water - Notes: In contact with water, the substance slowly hydrolyses

Biodegradability: Water stability data (hydrolysis) - Notes: t<sub>1/2</sub> > 1 a (pH 7, 25 if C, pH value 7), (OECD Guideline 111)

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Biodegradability: Persistence - %: 100 - Notes: ECHA

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

triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

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- Bioaccumulation: Low potential for bioaccumulation  
Coco diethanolamide  
Test: Log Kow 3.75  
5-chloro-2-(4-chlorophenoxy)phenol; [DCPP] - CAS: 3380-30-1  
Bioaccumulation: Accumulation in organisms is low - Test: BCF - Bioconcentration factor 68-77 - Duration: 28d - Notes: Cyprinus carpio (OECD Guideline 305E)  
triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5  
Test: Kow - Partition coefficient 4.8
- 12.4. Mobility in soil  
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
Mobility in soil: The product has very high mobility potential  
Coco diethanolamide  
Mobility in soil: The substance is soluble and mobile in water and soil  
5-chloro-2-(4-chlorophenoxy)phenol; [DCPP] - CAS: 3380-30-1  
Mobility in soil: Volatility - Notes: The substance does not evaporate to the atmosphere from the water surface  
Mobility in soil: Adsorption in soil - Notes: Adsorption to the solid phase of the soil is expected  
triclosan; 2,4,4'-trichloro-2'-hydroxy-diphenyl-ether; 5-chloro-2-(2,4-dichlorophenoxy)phenol - CAS: 3380-34-5  
Test: Koc (adsorption/soil) 2.92
- 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. 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  
ADR-UN number: 3082  
RID-UN Number: 3082  
ADN-UN Number: 3082  
IATA-Un number: 3082  
IMDG-Un number: 3082
- 14.2. UN proper shipping name  
ADR-Shipping Name: MATTER DANGEROUS TO THE ENVIRONMENT, LIQUID, N.O.S.  
IATA-Shipping Name: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S.  
IMDG-Shipping Name: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S.
- 14.3. Transport hazard class(es)  
ADR-Class: 9  
ADR-Label: 9  
ADR - Hazard identification number: 90  
RID-Class: 9





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- |             |   |
|-------------|---|
| ADN-Class:  | 9 |
| IATA-Class: | 9 |
| IATA-Label: | 9 |
| IMDG-Class: | 9 |
- 14.4. Packing group
- |                     |     |
|---------------------|-----|
| RID-Packing Group:  | III |
| ADN-Packing Group:  | III |
| ADR-Packing Group:  | III |
| IATA-Packing group: | III |
| IMDG-Packing group: | III |
- 14.5. Environmental hazards
- Marine pollutant: Marine pollutant
- ADN-Environmentally hazardous in tank-vessels:
- 14.6. Special precautions for user
- ADR-Transport category (Tunnel restriction code): (E)
- IMDG-Shipping Name: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA,  
N.A.S.
- 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:
- 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 :



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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  
Product belongs to category: E2

**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:

H331 Toxic if inhaled.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H310 Fatal in contact with skin.  
H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
EUH071 Corrosive to the respiratory tract.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
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/Inhal	Acute toxicity (inhalation), Category 3
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
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
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
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1

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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

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

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	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.



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