

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

Safety Data Sheet dated 6/10/2023, version 9 (replaces version 8)

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

1.1. Product identifier

Mixture identification:

Trade name:

OIL CLEANER

Trade code:

G14-007 / 008 / 009

UFI:

8G82-G07W-P00D-RQT6

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. ELETTRICHIMICA 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)

Acute Tox. 4, H332 Harmful if inhaled.

Skin Irrit. 2, H315 Causes skin irritation.

Eye Dam. 1, H318 Causes serious eye damage.

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.

Precautionary statements:

P261 Avoid breathing vapours.

P264 Wash hands thoroughly with water after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/clothing and eye/face protection.

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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.

Special Provisions:

None

Contains

2-butoxyethanol; ethylene glycol monobutyl ether

Ethoxylated alcohol

Undecanol, branched and linear, ethoxylated, propoxylated

Benzenesulphonic acid, sodium salts.

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
>= 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
>= 5% - < 10%	Ethoxylated alcohol	CAS: 69011-36-5	 3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302
>= 1% - < 5%	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
>= 1% - < 5%	Alcohols, C12-15- branched and linear, ethoxylated (>2.5 moles EO) (CAS: 106232-83-1)	CAS: 106232-83-1 EC: 932-186-2	 3.3/2 Eye Irrit. 2 H319  4.1/A1 Aquatic Acute 1 H400 4.1/C3 Aquatic Chronic 3 H412

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>= 1% - < 5%	Undecanol, branched and linear, ethoxylated, propoxylated	EC: 940-634-3	 3.3/1 Eye Dam. 1 H318
>= 1% - < 5%	Benzenesulphonic acid, sodium salts.	CAS: 68411-30-3 EC: 270-115-0 REACH No.: 01-2119489428-22-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.2/2 Skin Irrit. 2 H315  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
10 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

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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 him 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:

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.

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.

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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

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**

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

UE - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: N.A.

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

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

ACGIH - STEL: Ceiling 2 mg/m³

DNEL Exposure Limit Values

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

Worker Professional: 246 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

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

Consumer: 147 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 59 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 1091 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 426 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 98 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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Consumer: 26.7 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short 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

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

Target: Fresh Water - Value: 8.8 mg/l

Target: Marine water - Value: 0.88 mg/l

Target: Freshwater sediments - Value: 34.6 mg/kg dry weight

Target: Marine water sediments - Value: 3.46 mg/kg dry weight

Target: Intermittent release - Value: 26.4 mg/l

Target: Sewage treatment plant - Value: 463 mg/l

Target: Secondary poisoning - Value: 20 mg/kg

Target: Soil - Value: 2.33 mg/kg dry weight

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 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:

Use adequate protective respiratory equipment.

Thermal Hazards:

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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 yellow	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	9,5	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.99 ± 0.05	--	--
Relative vapour density:	N.A.	--	--

Particle characteristics:

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

Properties	Value	Method:	Notes
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SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use

10.2. Chemical stability

The product is stable under recommended storage and use conditions.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

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None in particular.

10.6. Hazardous decomposition products

None.

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

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

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

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: LD50 - Route: Oral - Species: Rat = 1746 mg/kg bw

Test: LC50 - Route: Inhalation - Species: Rat = 523 ppm - Duration: 4h

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

Test: NOAEL(C) - Route: Oral - Species: Rat (male) 2 69 mg/kg dry weight - Duration: 90d

Test: NOAEL(C) - Route: Oral - Species: Rat (female) 2 82 mg/kg dry weight - Duration: 90d

Test: NOAEL(C) - Route: Skin - Species: Rabbit > 150 mg/kg di b.w./day - Duration: 90d

Test: LOAEL(C) - Route: Inhalation - Species: Rat = 152 mg/m³

b) skin corrosion/irritation:

Test: Skin Irritant Positive - Causes skin irritation

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- 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
- g) reproductive toxicity:
Test: NOAEL(C) - Route: Oral - Species: Rabbit = 720 mg/kg di b.w./day
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
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
Alcohols, C12-15-branched and linear, ethoxylated (>2.5 moles EO) (CAS: 106232-83-1) -
CAS: 106232-83-1
- 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 - Route: Skin - Species: Rabbit Negative
Undecanol, branched and linear, ethoxylated, propoxylated
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg bw - Based on available data,
the classification criteria are not met
- c) serious eye damage/irritation:
Test: Skin Irritant - Species: Rabbit Positive - Source: N.A.
Test: Eye Corrosive - Species: Rabbit Positive - Source: N.A.
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
Test: In vivo genotoxicity Negative - Based on available data, the classification criteria
are not met
- f) carcinogenicity:

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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 lymphnode 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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Not classified for environmental hazards

Based on available data, the classification criteria are not met

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

a) Aquatic acute toxicity:

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

Endpoint: EC50 - Species: Crustaceans = 1550 mg/l - Duration h: 48

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

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 100 mg/l

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

a) Aquatic acute toxicity:

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

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- Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 1 mg/l - Duration h: 48
- Alcohols, C12-15-branched and linear, ethoxylated (>2.5 moles EO) (CAS: 106232-83-1) - CAS: 106232-83-1
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 0.1-1 mg/l - Duration h: 96
 - c) Bacteria toxicity:
Endpoint: EC50 - Species: Activated sludge = 140 mg/l
 - e) Plant toxicity:
Endpoint: EC50 - Species: Algae > 0.1-1 mg/l - Duration h: 72
Endpoint: NOEC = 10 mg/kg
 - g) Toxicity to aquatic invertebrates:
Endpoint: EC50 - Species: Daphnia > 0.1-1 mg/l - Duration h: 48
- Undecanol, branched and linear, ethoxylated, propoxylated
- 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
Endpoint: EC50 - Species: Algae > 1-10 mg/l - Duration h: 72
 - e) Plant toxicity:
Endpoint: NOEC - Species: Algae = 1.7 mg/l - Duration h: 72
- 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
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:

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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).

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

Biodegradability: Readily biodegradable - Duration: 28d - %: 90.4

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

Biodegradability: Biodegradable

Undecanol, branched and linear, ethoxylated, propoxylated

Biodegradability: Readily biodegradable - Duration: 28d

Biodegradability: Biodegradable - Duration: 60d

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

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

Bioaccumulation: Not bioaccumulative

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

Bioaccumulation: Not bioaccumulative

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

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

Mobility in soil: The product has very high mobility potential

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%

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.

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- 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:

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

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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.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.
- 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.
- 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/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
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
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
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	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

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

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

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

This MSDS cancels and replaces any preceding release.

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