

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

Safety Data Sheet dated 12/10/2023, version 2

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

1.1. Product identifier

Mixture identification:

Trade name:

OIL CLEANER S

Trade code:

G13-013 / 014 / 015

UFI:

SHN1-M0Q6-0001-J90X

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Corr. 1B, H314 Causes severe skin burns and eye damage.

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:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear protective gloves and eye/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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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.

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

Special Provisions:

None

Contains

Ethoxylated alcohol

potassium hydroxide; caustic potash

Undecanol, branched and linear, ethoxylated, propoxylated

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
$\geq 10\%$ - $< 20\%$	ethanol; ethyl alcohol	Index number: CAS: EC: REACH No.: 603-002-00-5 64-17-5 200-578-6 01-2119457610-43-XXXX	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319
$\geq 5\%$ - $< 10\%$	Ethoxylated alcohol	CAS: 69011-36-5	 3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302
$\geq 1\%$ - $< 5\%$	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
$\geq 1\%$ - $< 5\%$	potassium hydroxide; caustic potash	Index number: CAS: EC: REACH No.: 019-002-00-8 1310-58-3 215-181-3 01-2119487136-33-XXXX	 2.16/1 Met. Corr. 1 H290  3.2/1A Skin Corr. 1A H314  3.3/1 Eye Dam. 1 H318

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			 3.1/4/Oral Acute Tox. 4 H302 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
>= 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
>= 1% - < 5%	propan-2-ol; isopropyl alcohol; isopropanol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25-XXXX	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336
>= 1% - < 5%	Undecanol, branched and linear, ethoxylated, propoxylated	EC: 940-634-3	 3.3/1 Eye Dam. 1 H318
7 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

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			H319 C >= 0,0015%: Skin Sens. 1A H317
7 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
157 ppb	N, N-dimethylformamide; dimethyl formamide	Index number: 616-001-00-X CAS: 68-12-2 EC: 200-679-5 REACH No.: 01-2119475605-32-XXXX	 2.6/3 Flam. Liq. 3 H226  3.7/1B Repr. 1B H360  3.3/2 Eye Irrit. 2 H319  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Inhal Acute Tox. 4 H332

SVHC, PBT, vPvB, endocrine disruptor substances:

0 N, N-dimethylformamide; dimethyl formamide

 REACH No.: 01-2119475605-32-XXXX, Index number: 616-001-00-X, CAS: 68-12-2,
 EC: 200-679-5

SVHC

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

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

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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.

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

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

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Adequately ventilated premises.

- 7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- ethanol; ethyl alcohol - CAS: 64-17-5
ACGIH - STEL: 1000 ppm - Notes: N.A.
- potassium hydroxide; caustic potash - CAS: 1310-58-3
ACGIH - STEL: Ceiling 2 mg/m³ - Notes: N.A.
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: N.A.
- sodium hydroxide; caustic soda - CAS: 1310-73-2
ACGIH - STEL: Ceiling 2 mg/m³
- N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2
UE - TWA(8h): 15 mg/m³, 5 ppm - STEL: 30 mg/m³, 10 ppm - Notes: N.A.
ACGIH - TWA(8h): 5 ppm - Notes: N.A.

DNEL Exposure Limit Values

- ethanol; ethyl alcohol - CAS: 64-17-5
Worker Professional: 1900 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 950 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 343 mg/kg - Exposure: Human Dermal - 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
- N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2
Worker Professional: 6 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity - Notes: ECHA
Worker Professional: 1.1 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Endpoint: Developmental/teratogenic toxicity - Notes: ECHA
Consumer: 1.1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity - Notes: ECHA
Consumer: 0.16 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity - Notes: ECHA

PNEC Exposure Limit Values

- ethanol; ethyl alcohol - CAS: 64-17-5
Target: Fresh Water - Value: 0.96 mg/l
Target: Marine water - Value: 0.79 mg/l
Target: Freshwater sediments - Value: 3.6 mg/kg
Target: Marine water sediments - Value: 2.9 mg/kg
Target: Microorganisms in sewage treatments - Value: 580 mg/l
Target: Food chain - Value: 0.72 g/kg
Target: Soil - Value: 0.63 mg/kg
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/l
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg

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Target: Marine water sediments - Value: 552 mg/kg

Target: Ground compartment - Value: 28 mg/kg

N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2

Target: Sewage treatment plant - Value: 44 mg/l - Notes:: ECHA

Target: Marine water sediments - Value: 111 mg/kg dry weight - Notes:: ECHA

Target: Freshwater sediments - Value: 11.1 mg/kg dry weight - Notes:: ECHA

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:

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:	straw 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:	11,2	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--

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Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.04 ± 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

It may generate flammable gases on contact with halogenated organic substances, and elementary metals.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Do not mix with acids, oxidizing and / or reducing agents. Aluminum, light metals.
None in particular.

10.6. Hazardous decomposition products

None.

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 Corr. 1B H314

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

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- 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:

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 7000 ml/kg

Test: LD50 - Route: Oral - Species: Mouse = 3400 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg bw

Test: LC50 - Route: Inhalation - Species: Rat = 20000 ppm - Duration: 10h

Test: LC50 - Route: Inhalation - Species: Mouse = 39 mg/m³ - Duration: 4h

c) serious eye damage/irritation:

Test: Eye Irritant Yes - Causes severe eye irritation

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

potassium hydroxide; caustic potash - CAS: 1310-58-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 333 mg/kg

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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4396-5500 mg/kg - Source: N.A.

Test: LC50 - Route: Inhalation - Species: Rat 72.6 mg/l - Duration: 4h - Source: N.A.

Test: LC50 - Route: Inhalation - Species: Mouse 27.2 mg/l - Duration: 4h - Source: N.A.

Test: LD50 - Route: Skin - Species: Rabbit = 12870 mg/kg - Source: N.A.

Undecanol, branched and linear, ethoxylated, propoxylated

a) acute toxicity:

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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.

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

N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2

f) carcinogenicity:

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

Test: Teratogenicity Positive - In animal experiments the substance gave teratogenic effect

g) reproductive toxicity:

Test: Reproductive Toxicity Negative - Based on available data, the classification criteria are not met

i) STOT-repeated exposure:

Route: Oral Positive - Repeated exposure to large quantities can cause specific damage to the body. It damages the liver

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

ethanol; ethyl alcohol - CAS: 64-17-5

a) Aquatic acute toxicity:

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

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- Endpoint: LC50 - Species: Crustaceans = 1833 mg/l - Duration h: 24
Endpoint: LC50 - Species: Crustaceans = 5980 mg/l - Duration h: 4
Endpoint: EC50 - Species: Algae = 1000 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: NOEC (10d) - Species: Crustaceans = 9.6 mg/l
Endpoint: NOEC (7d) - Species: Algae = 280 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
Endpoint: EC50 - Species: Daphnia > 1 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 1 mg/l - Duration h: 48
- potassium hydroxide; caustic potash - CAS: 1310-58-3
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 80 mg/l - Duration h: 96
- 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
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1400 mg/l - Duration h: 24-96
Endpoint: LC50 - Species: Fish = 1400 mg/l - Duration h: 24-96
Endpoint: LC50 - Species: Crustaceans = 1400 mg/l - Duration h: 48
Endpoint: LC50 - Species: Crustaceans = 11500 mg/l - Duration h: 86
- d) Terrestrial toxicity:
Endpoint: EC50 - Species: Terrestrial plants = 2100 mg/l - Duration h: 72
- 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
- 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

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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

N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 7.1 GL - Duration h: 96

Endpoint: EC50 - Species: Aquatic invertebrates = 13.1 GL - Duration h: 48

Endpoint: EC50 - Species: Algae = 1 GL - Duration h: 72

Endpoint: EC50 - Species: Aquatic micro-organisms = 12.3 GL

b) Aquatic chronic toxicity:

Endpoint: NOEC (21d) - Species: Aquatic invertebrates = 1.5 GL

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).

ethanol; ethyl alcohol - CAS: 64-17-5

Biodegradability: Readily biodegradable

Biodegradability: Readily biodegradable - Test: COD (Chemical Oxygen Demand) - %: 1640000

Biodegradability: Readily biodegradable - Test: COD (Chemical Oxygen Demand) - %: 1586000

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

Biodegradability: Biodegradable

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable

Undecanol, branched and linear, ethoxylated, propoxylated

Biodegradability: Readily biodegradable - Duration: 28d

Biodegradability: Biodegradable - Duration: 60d

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

N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2

Biodegradability: Readily biodegradable

12.3. Bioaccumulative potential

ethanol; ethyl alcohol - CAS: 64-17-5

Bioaccumulation: Low potential for bioaccumulation - Test: BCF - Bioconcentration factor 3.2

Bioaccumulation: Low potential for bioaccumulation - Test: Kow - Partition coefficient -0.35

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

Bioaccumulation: Not bioaccumulative

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Test: Kow - Partition coefficient 0.05

N, N-dimethylformamide; dimethyl formamide - CAS: 68-12-2

Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil

ethanol; ethyl alcohol - CAS: 64-17-5

Mobility in soil: Mobile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

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- 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: 3266
RID-UN Number: 3266
ADN-UN Number: 3266
IATA-Un number: 3266
IMDG-Un number: 3266
- 14.2. UN proper shipping name
IATA-Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide)
IMDG-Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide)
- 14.3. Transport hazard class(es)
ADR-Class: 8
ADR-Label: 8
ADR - Hazard identification number: 80
RID-Class: 8
ADN-Class: 8
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
- 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: No
IMDG-EMS: F,A-S,B
ADN-Environmentally hazardous in tank-vessels:
- 14.6. Special precautions for user
ADR-Transport category (Tunnel restriction code): E
IMDG-Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide)
- 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)

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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 30
Restriction 72
Restriction 75
Restriction 76

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)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

N, N-dimethylformamide; dimethyl formamide
Toxic to reproduction

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:

H226 Flammable liquid and vapour.
H360 May damage fertility or the unborn child.
H319 Causes serious eye irritation.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

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H225 Highly flammable liquid and vapour.
 H318 Causes serious eye damage.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.
 H336 May cause drowsiness or dizziness.
 H310 Fatal in contact with skin.
 H301 Toxic if swallowed.
 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.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
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/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 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
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 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 Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

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

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

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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