

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
SOCOSTRIP A 4514**

Regulation (EU) n. 2020/878

Safety Data Sheet date: 28/5/2024, version 5**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: SOCOSTRIP A 4514
SDS code: P54514
UFI: V870-A4TX-JS46-4CTH

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

Recommended use:

Solvent
Industrial uses

1.3. Details of the supplier of the safety data sheet**Manufacturers:**

Socomore SASU

Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France

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Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

- ⚠ Warning, Acute Tox. 4, Harmful if swallowed.
- ⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
- ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
- ⚠ Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

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Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P264 Wash hands thoroughly after handling.

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].

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 Call a POISON CENTER if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

Special Provisions:

None

Contains

ethanediol; ethylene glycol

benzyl alcohol

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 $\geq 0.1\%$



SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
$\geq 50\%$ - $< 60\%$	ethanediol; ethylene glycol	Index number: CAS: EC: REACH No.: 2119456816 -28	 3.1/4/Oral Acute Tox. 4 H302  3.9/2 STOT RE 2 H373 (kidneys)

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<p>>= 20% - < 25%</p>	<p>benzyl alcohol</p>	<p>Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH No.: 01-2119492630-38</p>	<p>⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.3/2 Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral 1620 mg/kg bw</p>
<p>>= 15% - < 20%</p>	<p>2-(2-butoxyethoxy) ethanol; diethylene glycol monobutyl ether</p>	<p>Index number: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 REACH No.: 01-2119475104-44</p>	<p>⚠ 3.3/2 Eye Irrit. 2 H319</p>
<p>>= 0.5% - < 1%</p>	<p>potassium hydroxide; caustic potash</p>	<p>Index number: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 REACH No.: 01-2119487136-33</p>	<p>⚠ 2.16/1 Met. Corr. 1 H290 ⚠ 3.2/1A Skin Corr. 1A H314 ⚠ 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</p>

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 of 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.
- Give nothing to eat or drink.

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:

No particular treatment.

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, ensure 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:

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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

Occupational exposure limit values

ethanediol; ethylene glycol - CAS: 107-21-1

- OEL Type: National - TWA(8h): 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: France VLEI (INRS - TMP N° 84) - peau

- OEL Type: National - TWA(8h): 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: Belgique(aerosol)

- OEL Type: National - TWA: 26 mg/m³, 10 ppm - Notes: Allemagne

- OEL Type: National - TWA: 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: UK

- OEL Type: EU - TWA(8h): 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: Skin

- OEL Type: ACGIH - STEL: 10 mg/m³ - Notes: (I, H), A4 - URT irr

benzyl alcohol - CAS: 100-51-6

- OEL Type: National - TWA(8h): 22 mg/m³, 5 ppm - Notes: Germany - DFG, H, Y,11 (Skin)

- OEL Type: National - TWA: 5 mg/m³ - Notes: Bulgaria

- OEL Type: National - TWA: 40 mg/m³ - Notes: Czech Republic

- OEL Type: National - TWA: 45 mg/m³, 10 ppm - Notes: Finland

- OEL Type: National - TWA: 5 mg/m³ - Notes: Latvia

- OEL Type: National - TWA: 5 mg/m³ - Notes: Lithuania (skin)

- OEL Type: National - TWA: 240 mg/m³ - Notes: Poland

- OEL Type: National - TWA: 22 mg/m³, 5 ppm - STEL: 44 mg/m³, 10 ppm - Notes: Slovenia (Potential for cutaneous absorption)

- OEL Type: National - TWA: 22 mg/m³, 5 ppm - Notes: Switzerland (Skin notation)

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

- OEL Type: National - TWA(8h): 67.5 mg/m³ - Notes: Germany

- OEL Type: National - TWA(8h): 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm - Notes: France VLEI

- OEL Type: National - TWA(8h): 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm - Notes: UK

- OEL Type: EU - TWA(8h): 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm

- OEL Type: ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

- OEL Type: National - TWA(8h): 50 mg/m³, 9 ppm - STEL: 100 mg/m³, 18 ppm - Notes: Netherlands

- OEL Type: National - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm - Notes: Belgium

- OEL Type: National - TWA: 67.5 mg/m³, 10 ppm - STEL(15min (Miw)): 101.2 mg/m³, 15 ppm - Notes: Österreich

- OEL Type: National - TWA: 68 mg/m³, 10 ppm - Notes: Norway

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

- OEL Type: Ontario - STEL: 2 mg/m³ - Notes: Canada
- OEL Type: British Columbia - STEL: 2 mg/m³ - Notes: Canada
- OEL Type: Alberta - STEL: 2 mg/m³ - Notes: Canada
- OEL Type: Québec - STEL: 2 mg/m³ - Notes: Canada
- OEL Type: ACGIH - STEL: Ceiling 2 mg/m³ - Notes: URT, eye, and skin irr
- OEL Type: National - STEL: 2 mg/m³ - Notes: France
- OEL Type: National - STEL: 2 mg/m³ - Notes: Spain

DNEL Exposure Limit Values

ethanediol; ethylene glycol - CAS: 107-21-1

Worker Professional: 106 mg/kg b.w./day - Consumer: 53 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 35 mg/m³ - Consumer: 7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

benzyl alcohol - CAS: 100-51-6

Worker Industry: 40 mg/kg b.w./day - Consumer: 20 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 110 mg/m³ - Consumer: 27 mg/kg b.w./day - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 8 mg/kg b.w./day - Consumer: 4 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 22 mg/m³ - Consumer: 5.4 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 20 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Worker Industry: 101 mg/m³ - Consumer: 7.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 20 mg/kg b.w./day - Consumer: 10 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 10 ppm - Consumer: 5 mg/kg b.w./day - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 10 ppm - Consumer: 5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 1.25 - Exposure: Human Oral - Frequency: Long Term, systemic effects

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

Worker Industry: 1 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

ethanediol; ethylene glycol - CAS: 107-21-1

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: Freshwater sediments - Value: 10 mg/l

Target: Soil (agricultural) - Value: 1.53 mg/kg

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Target: Microorganisms in sewage treatments - Value: 20.9 mg/l
Target: PNEC intermittent - Value: 10 mg/l
benzyl alcohol - CAS: 100-51-6
Target: Fresh Water - Value: 1 mg/l
Target: Marine water - Value: 0.1 mg/l
Target: PNEC01 - Value: 2.3 mg/l
Target: Soil - Value: 0.456 mg/kg
Target: Freshwater sediments - Value: 5.27 mg/kg
Target: Marine water sediments - Value: 0.527 mg/kg
Target: Microorganisms in sewage treatments - Value: 39 mg/l
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5
Target: Fresh Water - Value: 1 mg/l
Target: Marine water - Value: 0.1 mg/l
Target: Freshwater sediments - Value: 4 mg/l
Target: Marine water sediments - Value: 0.4 mg/l
Target: Soil - Value: 0.32 mg/l
Target: Sewage treatment plant - Value: 200 mg/l
Target: Oral (secondary poisoning) (foodstuff) - Value: 56 mg/kg

Biological Exposure Index
N.A.

8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Safety goggles (EN 166)

Face protection shield.

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

Protection for skin:

Chemical protection clothing. (type 3 - EN14605)

Chemical protection clothing. (type 6 - EN13034)

Boots.

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Light yellow	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	215 °C	NF T67-101	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	91 °C	ISO 2592	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	13	ISO 4316, ASTM E70	--
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:	1.1	ISO 649, ASTM D1298	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

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No other relevant information

Volatile Organic compounds - VOCs = 214 g/l

N.A. = not available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicological information of the product:

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Acute toxicity

The product is classified: Acute Tox. 4 H302

ATEmix - Oral 470,675 mg/kg bw

ATEmix - Inhalation (Mist) 7,5 mg/l

Skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

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The product is classified: STOT RE 2 H373

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

ethanediol; ethylene glycol - CAS: 107-21-1

Acute toxicity:

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

Test: LD50 - Route: Oral < 2000 mg/kg

Test: LD50 - Route: Skin - Species: Mouse = 3500 mg/kg bw/day

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 2.5 mg/l - Notes: 6h

Skin corrosion/irritation:

Test: NOAEL - Route: Skin - Species: DOG = 2.22 mg/kg - Duration: 28 days - Notes: sub-acute (daily)

Respiratory or skin sensitisation:

Test: NOAEL - Route: Oral - Species: Rat = 200 mg/kg - Duration: 31 days - Notes: sub-acute (daily)

Carcinogenicity:

Test: NOAEL - Route: Oral - Species: Rat = 1000 mg/kg bw/day

STOT-single exposure:

Test: NOAEL - Route: Oral - Species: Rat = 200 mg/kg bw/day - Duration: 33Days - Notes: no effect

Test: NOAEL - Route: Skin - Species: Rat = 2220 mg/kg bw/day - Duration: 28 days

benzyl alcohol - CAS: 100-51-6

Acute toxicity

ATE - Oral 1620 mg/kg bw

Test: ATE - Route: Inhalation = 11 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation (dust, mist) - Species: Rat > 4.178 mg/l - Duration: 4h -

Source: OECD 403

Test: LD50 - Route: Oral - Species: Rat (male) = 1620 mg/kg

Test: ATE - Route: Oral = 1620 mg/kg

Test: LD50 - Route: Oral - Species: Rat (Male, female) = 1620 mg/kg - Duration: 4h

Carcinogenicity:

Route: Oral - Species: mouse (Male, female) = 400 mg/kg bw/day - Duration: 104 weeks -
Source: OECD 451

Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: mouse (Male, female) = 200 mg/kg bw - Duration: 91 days

Test: NOAEL (fertility) - Route: Oral - Species: mouse (Male) = 800 mg/kg - Duration: 91 days

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 400 mg/kg bw - Duration: 91 days

Test: NOAEL (fertility) - Route: Oral - Species: Rat (Male, female) = 800 mg/kg bw - Duration: 91 days

Test: NOAEC - Route: Inhalation - Species: Rat (Male, female) = 1072 mg/m³ - Duration:

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28 days - Source: OECD 412

Test: NOAEL (fertility) - Route: Inhalation - Species: Rat (Male, female) = 1072 mg/m³ -

Duration: 28 days - Source: OECD 412

STOT-repeated exposure:

Test: NOAEC - Route: Inhalation (aerosol) - Species: Rat (Male, female) = 1072 mg/m³ -

Duration: 28 days - Source: OECD 412

Test: NOAEL - Route: Oral - Species: Rat (Male, female) = 400 mg/kg - Duration: 103 weeks, 5 days/week - Source: OECD 451

Test: NOAEC - Route: Inhalation (dust, mist) - Species: Rat (Male, female) = 1072 mg/m³ - Duration: 28 days - Source: OECD 412

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 2410 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 2764 mg/kg bw

Route: Inhalation - Species: Rat > 29 ppm - Duration: 2h - Notes: IRT (inhalation risk test)

Reproductive toxicity:

Test: NOAEL - Species: Mouse = 720 mg/kg bw/day - Notes: 14 weeks

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

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 273 mg/kg

benzyl alcohol - CAS: 100-51-6

LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

Other toxicological information:

ethanediol; ethylene glycol

Toxicity - repeated exposure:

Category 2, oral, kidney (target organs)

-

benzyl alcohol

Skin corrosion / irritation:

Severe eye irritation.

Skin irritation:

Slight irritating effect

Mutagenicity on germ cells (in vitro):

Positive without metabolic activation, OECD 476, Mouse (L5178Y lymphoma cell)

Positive with metabolic activation, Chinese Hamster Ovary (CHO)

-

potassium hydroxide; caustic potash

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Harmful if swallowed
Corrosive, causes severe burns
Risk of serious eye damage
Irritating to skin.
Irritating to respiratory tracts

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

ethanediol; ethylene glycol - CAS: 107-21-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 72860 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 6500 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC20 - Species: activated sludge > 1995 mg/l - Duration h: 0.5 - activated sludge, static system, fresh water

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 15380 mg/l - Duration h: 168 - Notes: Pimephales promelas

Endpoint: NOEC - Species: Daphnia = 8590 mg/l - Duration h: 168 - Notes: Ceriodaphnia

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria = 225 mg/l - Duration h: 0.5

benzyl alcohol - CAS: 100-51-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96 - Notes: Pimephales promelas/ EPA OPP 72-1

Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48 - Notes: Daphnia magna, OECD 202

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 51 mg/l - Duration h: 504 - Notes: Daphnia magna, OECD 211

d) Terrestrial toxicity:

Endpoint: IC50 - Species: Microorganisms = 390 mg/kg - Duration h: 24 - Notes: ISO 8192; Nitrosomas

e) Plant toxicity:

Endpoint: NOEC - Species: Algae = 310 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata, OECD 201

Endpoint: EC50 - Species: Algae = 770 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata, OECD 201

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1300 mg/l - Duration h: 96 - Notes: Lepomis macrochirus

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Endpoint: EC50 - Species: Daphnia = 4950 mg/l - Duration h: 48

Endpoint: LC50 - Species: Daphnia = 13415 mg/l - Duration h: 96 - Notes: Americamysis bahia

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 96 - Notes: Desmodesmus subspicatus

Endpoint: EC10 - Species: Microorganisms > 1995 mg/l - Duration h: 0.5

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria > 100 mg/l

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

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 270 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish = 44 mg/l - Duration h: 24 - Notes: Gambusia affinis, Poescilidae

12.2. Persistence and degradability

ethanediol; ethylene glycol - CAS: 107-21-1

Biodegradability: Biodegradation in water - Duration: 10 days - %: 90-100

benzyl alcohol - CAS: 100-51-6

Biodegradability: Biodegradation in water - Test: OECD 301C - Duration: 14 days - %: 92-96 -

Notes: OECD 301C

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Biodegradability: Photodegradation (in air) - Test: DT50 - Duration: 3-4 hours - Notes: 1.5×10^6 /cm³, AOPWIN

Biodegradability: Biodegradation in water - Test: MITI modif(I) - Duration: 28 days - %: >80 -

Notes: OECD 301C

12.3. Bioaccumulative potential

ethanediol; ethylene glycol - CAS: 107-21-1

Log Pow -1.36

benzyl alcohol - CAS: 100-51-6

BCF 1.37 l/kg

Log Kow 1.05 - Notes: 20°C

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Log Pow 1 - Notes: 20°C

12.4. Mobility in soil

ethanediol; ethylene glycol - CAS: 107-21-1

Log Koc 0

Volatility (H: Henry's Law Constant) 0.1327 Pa.m³/mol - Notes: SRC HENRYWIN v3.10

benzyl alcohol - CAS: 100-51-6

Log Koc 15.7

Volatility (H: Henry's Law Constant) 0.0879 Pa.m³/mol

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Volatility (H: Henry's Law Constant) 0 atm m³/mol - Notes: 25°C

Surface tension 0.0069 N/m - Notes: 20°C

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

No harmful effects expected.

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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.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

06 02 05* other bases

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number: 3267
 IATA-UN Number: 3267
 IMDG-UN Number: 3267

14.2. UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium hydroxide; caustic potash)
 IATA-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium hydroxide; caustic potash)
 IMDG-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (potassium hydroxide; caustic potash)

14.3. Transport hazard class(es)

ADR-Class: 8
 ADR - Hazard identification number: 88
 IATA-Class: 8
 IATA-Label: 8
 IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: I
 IATA-Packing group: I
 IMDG-Packing group: I

14.5. Environmental hazards

ADR-Environmental Pollutant: No
 IMDG-Marine pollutant: No
 IMDG-EmS: F-A , S-B

14.6. Special precautions for user

ADR-Subsidiary hazards: -
 ADR-S.P.: 274
 ADR-Transport category (Tunnel restriction code): 1 (E)
 IATA-Passenger Aircraft: 850
 IATA-Subsidiary hazards: -
 IATA-Cargo Aircraft: 854
 IATA-S.P.: A3 A803
 IATA-ERG: 8L
 IMDG-Subsidiary hazards: -

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IMDG-Stowage and handling: Category B SW2

IMDG-Segregation: SG35

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. 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

Restrictions related to the substances contained:

Restriction 55

Restriction 75

Listed or in compliance with the following international inventories:

N.A.

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

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Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

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

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H373 (kidneys) May cause damage to organs (kidneys) through prolonged or repeated exposure.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
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

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Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
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
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

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, H302	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method
STOT RE 2, H373	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
- CCNL - Appendix 1
- Insert further consulted bibliography

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SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

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

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responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.