

Safety Data Sheet

S2 FOAMY 4,54LT 4PZ



Safety Data Sheet dated 13/4/2021, version 5

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

1.1. Product identifier

Mixture identification:

Trade name: S2 FOAMY 4,54LT 4PZ

Trade code: 79284

UFI: UU80-20R8-300A-TJ9R

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

Recommended use:

Detergent

1.3. Details of the supplier of the safety data sheet

Company:

FRA.BER S.R.L.

Via M.Merisi 40-46

24051 Antegnate (BG)

Italy

Tel.+390363905287

Competent person responsible for the safety data sheet:

info@fra-ber.it

1.4. Emergency telephone number

Emergency telephone number of the company and/or of an authorised advisory centre:

Centro Antiveleni - Ospedale di Niguarda - Milano - phone: +390266101029


Fra-Ber s.r.l. via M.Merisi 40-46, 24051 Antegnate (BG) - Italy, phone: +390363905287


info@fra-ber.it

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Warning, Skin Irrit. 2, Causes skin irritation.

 Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash hands thoroughly after handling.

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P280 Wear protective gloves and eye/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER.

Special Provisions:

None

Contains

Alchil Poliglucoside C8-C10
 acetic acid, (2-butoxyethoxy)
 ETHANOLAMINE
 Isotridecanol, ethoxylated

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Product contents:

Non-ionic surfactants 15 - 30 %
 Anionic surfactants 5 - 15 %
 Polycarboxylates < 5 %

The product also contains: Enzymes, Perfumes

Allergens:

Preservatives: 1,2-benzisotiazol-3(2H)-one, 2-Fenossietanolo

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

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

Qty	Name	Ident. Number	Classification	Additional info
$\geq 15\% - < 25\%$	Alchil Poliglucoside C8-C10	CAS: 68515-73-1 EC: 500-220-1 REACH No.: 01-2119488530-36	 3.3/1 Eye Dam. 1 H318	REACH n° : Polymer: N.A.
$\geq 5\% - < 15\%$	Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)	CAS: 68439-57-6 EC: 931-534-0 REACH No.: 01-2119490234-40	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C $\geq 5\%$: Skin Irrit. 2 H315 C $\geq 38\%$: Eye Dam. 1 H318 5% \leq C < 38%: Eye Irrit. 2 H319	REACH n° : Polymer: N.A.
$\geq 5\% - < 15\%$	(2-hydroxyethyl)ammonium	CAS: 17863-38-6 EC: 241-814-8	 3.2/2 Skin Irrit. 2 H315	REACH n° : Polymer: N.A.

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	dihydrogen citrate		 3.3/2 Eye Irrit. 2 H319	
< 2%	acetic acid, (2-butoxyethoxy)	EC: 451-650-0	 3.2/1B Skin Corr. 1B H314	REACH n° : Polymer: N.A.
< 2%	ETHANOLAMINE	CAS: 141-43-5 EC: 205-483-3 REACH No.: 01-2119486455-28	 3.1/4/Inhal Acute Tox. 4 H332  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Oral Acute Tox. 4 H302  3.2/1B Skin Corr. 1B H314 Specific Concentration Limits: C >= 5%: STOT SE 3 H335	REACH n° : Polymer: N.A.
< 2%	Isotridecanol, ethoxylated	CAS: 69011-36-5 EC: 500-241-6 REACH No.: 01-2119976362-32	 3.1/4/Oral Acute Tox. 4 H302 4.1/C3 Aquatic Chronic 3 H412  3.3/1 Eye Dam. 1 H318	REACH n° : Polymer: N.A.
< 2%	HEXAMETHYLI NDANOPYRAN	Index number: 603-212-00-7 CAS: 1222-05-5 EC: 214-946-9 REACH No.: 01-2119488227-29	 4.1/C1 Aquatic Chronic 1 H410 M=1.	REACH n° : Polymer: N.A.
< 2%	BUTOXYETHANOL	CAS: 111-76-2 EC: 203-905-0 REACH No.: 01-2119475108-36	 3.1/4/Inhal Acute Tox. 4 H332  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Oral Acute Tox. 4 H302  3.3/2 Eye Irrit. 2 H319  3.2/2 Skin Irrit. 2 H315	REACH n° : Polymer: N.A.

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.

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Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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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:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ETHANOLAMINE - CAS: 141-43-5

EU - TWA(8h): 2.5 mg/m³, 1 ppm - STEL: 7.6 mg/m³, 3 ppm - Notes: Skin

ACGIH - TWA(8h): 3 ppm - STEL: 6 ppm - Notes: Eye and skin irr

BUTOXYETHANOL - CAS: 111-76-2

- TWA: 98 mg/m³, 20 ppm - Notes: TWA

- TWA: 246 mg/m³, 50 ppm - Notes: STEL

EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

DNEL Exposure Limit Values

Alchil Poliglucoside C8-C10 - CAS: 68515-73-1

Worker Industry: 595000 04 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 420 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 35.7 04 - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 357000 04 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 124 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

ETHANOLAMINE - CAS: 141-43-5

Consumer: 2 03 - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 0.24 04 - Exposure: Human Dermal - Frequency: Long Term (repeated)

Consumer: 3.75 04 - Exposure: Human Oral - Frequency: Long Term (repeated)

Worker Industry: 3.3 03 - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Worker Industry: 1 04 - Exposure: Human Dermal - Frequency: Long Term (repeated)

HEXAMETHYLINDANOPYRAN - CAS: 1222-05-5

Worker Industry: 5.29 03 - Consumer: 1.3 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: 1 - Notes: ECHA

Worker Industry: 28.85 mg/kg - Consumer: 14.43 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Endpoint: 1 - Notes: ECHA

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: 1 - Notes: ECHA

PNEC Exposure Limit Values

Alchil Poliglucoside C8-C10 - CAS: 68515-73-1

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Target: Fresh Water - Value: 0.176 mg/l
 Target: Marine water - Value: 0.0176 mg/l
 Target: Intermittent emission - Value: 0.27 mg/l
 Target: Freshwater sediments - Value: 1.516 04
 Target: Marine water sediments - Value: 0.152 04
 Target: Soil - Value: 0.654 04
 Target: Oral route (secondary poisoning) - Value: 111.11 mg/kg
 Target: Purification plant - Value: 560 mg/l

ETHANOLAMINE - CAS: 141-43-5

Target: Fresh Water - Value: 0.085 mg/l
 Target: Aquatic, temporary release - Value: 0.02 mg/l
 Target: Marine water - Value: 0.009 mg/l
 Target: Freshwater sediments - Value: 0.434 04
 Target: Marine water sediments - Value: 0.043 04
 Target: Soil (agricultural) - Value: 0.037 04
 Target: Purification plant - Value: 100 mg/l

HEXAMETHYLINDANOPYRAN - CAS: 1222-05-5

Target: Freshwater sediments - Value: 2.0 mg/kg - Notes:: assessment factor: 10
 Target: Fresh Water - Value: 4.4 03 - Notes:: assessment factor: 10
 Target: Marine water - Value: 0.44 03 - Notes:: assessment factor: 100
 Target: Microorganisms in sewage treatments - Value: 1.0 mg/l - Notes:: assessment factor: 10
 Target: Soil (agricultural) - Value: 0.31 mg/kg - Notes:: assessment factor: 50
 Target: Marine water sediments - Value: 0.394 mg/kg - Notes:: assessment factor: 10
 Target: 10 - Value: 3.3 mg/kg - Notes:: assessment factor: 300

8.2. Exposure controls

Eye protection:

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

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. rubber, PVC or viton.

Protection for hands:

nitrile gloves with 0.38 mm thickness with chemical protection J,K,L, according EN 374-3:2003

Respiratory protection:

Not needed in well-ventilated areas

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:	Orange	--	--
Odour:	characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--

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Lower and upper explosion limit:	N.A.	--	--
Flash point:	>100 °C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	7.0 ± 0.5	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	not soluble	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.10 g/cm ³ +/-0,01 g/cm ³	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Storage temperature:	5°C < x < 20°C	--	--

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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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

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

Based on available data, the classification criteria are not met

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- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
 - f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
 - g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
 - h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
 - i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
 - j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
- Alchil Poliglucoside C8-C10 - CAS: 68515-73-1
 - a:
 - Test: LD50 - Route: Oral - Species: Rat > 2000 01
 - Test: LD50 - Route: Skin - Species: Rabbit > 2000 01
 - g) reproductive toxicity:
 - Test: EC55 - Route: Oral - Species: Rat = 100 mg/kg bw/day - Source: OECD 421
 - ETHANOLAMINE - CAS: 141-43-5
 - a:
 - Test: LD50 - Route: Oral - Species: Rat = 1089 mg/kg bw/day - Source: OCSE 401
 - Test: LD50 - Route: Skin - Species: Rabbit = 2504 mg/kg bw/day - Source: OCSE 402
 - Test: LC50 - Route: Inhalation - Species: Rat > 1.3 mg/l - Duration: 6 h
 - Isotridecanol, ethoxylated - CAS: 69011-36-5
 - a:
 - Test: LD50 - Route: Oral - Species: Rat = 2.000 mg/kg
 - Test: LD50 - Route: Skin - Species: Rat > 2.000 mg/kg
 - HEXAMETHYLINDANOPYRAN - CAS: 1222-05-5
 - a:
 - Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
 - Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
 - Test: LD50 - Route: Oral 4640 mg/kg
 - Test: EC57 11840 02
 - Test: EC58 11800 02
 - BUTOXYETHANOL - CAS: 111-76-2
 - a:
 - Test: LD50 - Route: Oral - Species: Rat 1746 mg/kg
 - Test: LD50 - Route: Skin 2000 mg/kg - Notes: porcellino d'india

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

Alchil Poliglucoside C8-C10 - CAS: 68515-73-1

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish 1.8 mg/l - Duration h: 672

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Notes: OCSE 202

Endpoint: LC50 - Species: Fish = 100.81 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 2 mg/l - Duration h: 504

e) Plant toxicity:

Endpoint: EC50 - Species: Algae 27.22 mg/l - Duration h: 72

acetic acid, (2-butoxyethoxy)

a) Aquatic acute toxicity:

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

ETHANOLAMINE - CAS: 141-43-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 349 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 65 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.8 mg/l - Duration h: 72 - Notes: OCSE 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 1.24 mg/l - Duration h: 984 - Notes: OCSE 210

Endpoint: NOEC - Species: Daphnia 0.85 mg/l - Duration h: 504

Isotridecanol, ethoxylated - CAS: 69011-36-5

a) Aquatic acute toxicity:

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

Endpoint: EC50 - Species: Invertebrati acquati = 10 mg/l - Duration h: 48

Endpoint: EC50 - Species: Piante acquatiche = 10 mg/l - Duration h: 72

Endpoint: EC50 - Species: Microorganismi > 10000 mg/l - Duration h: 17

HEXAMETHYLINDANOPYRAN - CAS: 1222-05-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 0.47 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia > 0.9 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish 0.140 mg/l - Duration h: 768

Endpoint: EC50 - Species: Daphnia 0.282 mg/l - Duration h: 504

Endpoint: LC50 - Species: Fish 0.452 mg/l - Duration h: 504 - Notes: ECHA

Endpoint: EC50 - Species: Daphnia 0.282 mg/l - Duration h: 504 - Notes: ECHA

Endpoint: EC50 - Species: Algae 0.72 mg/l - Duration h: 72 - Notes: ECHA

BUTOXYETHANOL - CAS: 111-76-2

a) Aquatic acute toxicity:

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

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

Endpoint: EC50 - Species: Algae = 1840 mg/l - Duration h: 72

12.2. Persistence and degradability

None

Alchil Poliglucoside C8-C10 - CAS: 68515-73-1

Biodegradability: Easily biodegradable - Duration: 28D - %: 99

ETHANOLAMINE - CAS: 141-43-5

Biodegradability: Easily biodegradable - Test: frab2 - Duration: FRAB1 - %: 90

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

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
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
No

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)
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

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Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 1.84 %

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H318 Causes serious eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
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. 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 SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
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 Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method

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This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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

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

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

This MSDS cancels and replaces any preceding release.

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