Safety Data Sheet
EMULSIO SPLENDI GAS e ACCIAIO NATURALE

Safety Data Sheet dated 4/7/2016, version 2

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

1.1. Product identifier

Mixture identification

Trade name: EMULSIO SPLENDI GAS e ACCIAIO NATURALE

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

Recommended use:

Detergent for hard surfaces.

Consumer use (SU21) - Products for washing and cleaning (PC35)

Uses advised against:

Different uses than recommended. Do not use in combination with other products.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

SUTTER INDUSTRIES s.p.a. - Società con Unico Socio
15060 Borghetto Borbera (AL) Italia
Tel. +39 0143 631.1

Competent person responsible for the safety data sheet:

regulatory.affairs@sutter.it

1.4. Emergency telephone number

+39 0143 631.1 mon-fri 9.00/17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P280 Wear eye 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

None

Product contents:
anionic surfactants < 5 %
The product also contains: Perfumes
Allergens:
Preservatives: METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable, the product is a mixture.
3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:
>= 5% - < 7% CITRIC ACID MONOHYDRATE
REACH No.: 01-2119457026-42, CAS: 5949-29-1, EC: 201-069-1

3.3/2 Eye Irrit. 2 H319

>= 3% - < 5% 1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER
REACH No.: 01-2119457435-35, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

2.6/3 Flam. Liq. 3 H226


3.8/3 STOT SE 3 H336

>= 0.5% - < 1.5% GLYCOLIC ACID
REACH No.: 01-2119485579-17, CAS: 79-14-1, EC: 201-180-5

3.2/1B Skin Corr. 1B H314


3.3/1 Eye Dam. 1 H318


3.1/4/Inhal Acute Tox. 4 H332

>= 0.5% - < 1.5% 2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE
REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

3.3/2 Eye Irrit. 2 H319


3.2/2 Skin Irrit. 2 H315


3.1/4/Oral Acute Tox. 4 H302


3.1/4/Dermal Acute Tox. 4 H312


3.1/4/Inhal Acute Tox. 4 H332

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.
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 opthalmologist 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
Acute effects:
Skin and eye irritation for contact
Irritation interior system if swallowed.

Until revison date of this document, are unknown chronic effects from the mixture contact with skin, eyes, inhalation, ingestion.

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:
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

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
The product does not contain ingredients classified as explosive according to Regulation 1272/2008/EC (CLP).
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.
The mixture does not contain ingredients classified as explosive according to EC Regulation 1272/2008 (CLP).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.

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. To converge the product in containment tanks.

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.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store away from sunlight.
Store in a cool and well ventilated place.
Do not store in open or unlabeled containers.
Keep away from food, drink and feed.
Incompatible materials:
None in particular. See also section 10.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular, see paragraph 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Until the revision date of this document, no experimental data are available for the mixture.
Below, listed occupational exposure limits, if available, for the components listed in paragraph 3.2.

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

EU - LTE(8h): 375 mg/m3, 100 ppm - STE: 568 mg/m3, 150 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE(8h): 50 ppm - STE: 100 ppm - Notes: A4 - Eye and URT irr

2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2

ACGIH - LTE(8h): 98 mg/m3, 20 ppm - STE(15min): 246 mg/m3, 50 ppm
OEL 8h - 98 mg/m3 - 20 ppm
OEL short - 246 mg/m3 - 50 ppm

DNEL Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture.
Below, listed the DNEL exposure limits, if available, for the components listed in paragraph 3.2.

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Worker Industry: 50.6 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 369 mg/m3 - Consumer: 43.9 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 553.5 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

GLYCOLIC ACID - CAS: 79-14-1

Worker Industry: 9.2 mg/m3 - Consumer: 2.3 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 9.2 mg/m3 - Consumer: 2.3 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 28.85 mg/kg - Exposure: Human Dermal - Frequency: Short Term, local effects - Notes: bw/day
Worker Industry: 10.56 mg/m3 - Consumer: 2.6 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: bw/day
Worker Industry: 57.69 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 1.53 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2

Worker Industry: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: day
Worker Industry: 20 mg/m3 - Consumer: 49 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Notes: day
Consumer: 123 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 652 mg/m3 - Consumer: 426 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Notes: day

PNEC Exposure Limit Values

Until the revision date of this document, no experimental data are available for the mixture.
Below, listed the PNEC exposure limits, if available, for the components listed in paragraph 3.2.

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

Target: Marine water - Value: 0.044 mg/l
Target: Fresh Water - Value: 0.44 mg/l
Target: Marine water sediments - Value: 34.6 mg/kg
Target: Freshwater sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 33.1 mg/kg

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Target: Marine water - Value: 1 mg/l
Target: Soil (agricultural) - Value: 4.59 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: Marine water sediments - Value: 5.2 mg/kg
Target: Freshwater sediments - Value: 52.3 mg/kg

GLYCOLIC ACID - CAS: 79-14-1

Target: Marine water - Value: 0.0031 mg/l
Target: Marine water sediments - Value: 0.0115 mg/kg - Notes:: wwt
Target: Soil (agricultural) - Value: 0.007 mg/kg - Notes:: wwt
Target: Microorganisms in sewage treatments - Value: 7 mg/l

Target: Fresh Water - Value: 0.0321 mg/l
Target: Freshwater sediments - Value: 0.115 mg/kg
Target: Food chain - Value: 16.6 mg/kg

2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2

Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.8 mg/kg
Target: Marine water - Value: 0.88 mg/l
Target: Microorganisms in sewage treatments - Value: 463 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.(EN 166)

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 that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. (EN 388 - EN 374 protection factor 6, corresponding to a breakthrough time >480 minutes). Due to great diversity of types, observe the operating instructions of the manufacturer with respect to substances listed in paragraph 3.2.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

The product is not flammable or explosive - see paragraph 2.1. The product contains no explosive components.
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

Environmental exposure controls:

The product is not dangerous for the environment - see section 2.1.
Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

Appropriate engineering controls:

No further technical checks suitable for your product under normal conditions.
See also section 1.2, section 7 and Exposure Scenario - Annex I of this document.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Clear liquid, colorless	Visual	--
Odour:	Citrus	Olfactory	--
Odour threshold:	Evident	Olfactory	--
pH:	3,5 +/- 0,5	Instrumental control	--
Melting point / freezing point:	Not Relevant	--	Parameter not relevant for the type of product
Initial boiling point and boiling range:	>=100°C	--	Estimated value on chemical / physical properties of components
Flash point:	> 65 ° C	--	Estimated value on chemical / physical properties of

			components
Evaporation rate:	Not Relevant	--	Parameter not relevant for the type of product
Solid/gas flammability:	Not Relevant	--	Parameter not relevant for the type of product
Upper/lower flammability or explosive limits:	Not Relevant	--	Parameter not relevant for the type of product
Vapour pressure:	Not Relevant	--	Parameter not relevant for the type of product
Vapour density:	Not Relevant	--	Parameter not relevant for the type of product
Relative density:	1.024 g/ml	Instrumental control	--
Solubility in water:	Total	--	Internal test
Solubility in oil:	Partial	--	Parameter not relevant for the type of product
Partition coefficient (n-octanol/water):	< 1000	--	Value estimated based on the solubility of the mixture.
Auto-ignition temperature:	Not Relevant	--	Parameter not relevant for the type of product
Decomposition temperature:	Not Relevant	--	Parameter not relevant for the type of product
Viscosity:	< 10 cP	--	Estimated indicative value. Not viscous mixture.
Explosive properties:	Not Relevant	--	Parameter not relevant for product composition.
Oxidizing properties:	Not Relevant	--	Parameter not relevant for product composition.

9.2. Other information

Properties	**Value**	**Method:**	**Notes:**
Miscibility:	Not Relevant	--	Parameter not relevant for the type of product
Fat Solubility:	Not Relevant	--	Parameter not relevant for the type of product
Conductivity:	Not Relevant	--	Parameter not relevant for the type of product
Substance Groups relevant properties	Not Relevant	--	Parameter not relevant for the type of product

SECTION 10: Stability and reactivity

10.1. Reactivity

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.2. Chemical stability

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

10.3. Possibility of hazardous reactions

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.
See also scetion 7.2.

10.4. Conditions to avoid

Different uses than recommended. Do not use in combination with other products. See also 1.2 and 7.2

10.5. Incompatible materials

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability. see also 1.2 and 7.2.

10.6. Hazardous decomposition products

Until the revision date of this document, no adverse effects and symptoms to exposure of the product are known, including chemical reactivity and instability.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

Until the revision date of this document, are not available experimental toxicological data on the mixture.

For the classification of the mixture see section 2.1.

EMULSIO SPLENDI GAS e ACCIAIO NATURALE

b) skin corrosion/irritation:

Test: Skin Irritant Negative - Notes: U82BR2 - MT01

Toxicological information of the main substances found in the mixture:

Below are reported, if available, the toxicological information of the components listed in paragraph 3.2.

CITRIC ACID MONOHYDRATE - CAS: 5949-29-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg

Test: LD50 - Route: Skin > 2000 mg/kg

Test: NOAEL - Route: Oral - Species: Rat = 4 mg/kg bw/d

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Source: OECD 404

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Source: OECD 405

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Source: Ames Test

g) reproductive toxicity:

Test: NOAEL - Species: Rat > 295 mg/kg bw/d

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg

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

Test: LC50 - Route: Inhalation - Species: Rat > 25.8 mg/l - Duration: 6h

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rat Negative - Source: OECD 404

d) respiratory or skin sensitisation:

Test: NOAEC - Route: Skin - Species: Rabbit > 1000 mg/kg - Source: OECD 410 - Notes: bw/day

Test: NOAEC - Route: Inhalation - Species: Rabbit = 1000 ppm - Source: OECD 413 - Notes: bw/day

f) carcinogenicity:

Test: NOAEC - Species: Mouse = 3000 ppm

g) reproductive toxicity:

Test: NOAEC - Species: Rat = 1500 ppm - Source: OECD 414

GLYCOLIC ACID - CAS: 79-14-1

a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2040 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 3.6 mg/l - Duration: 4h
b) skin corrosion/irritation:
Test: Skin Corrosive Positive - Source: OECD 404
c) serious eye damage/irritation:
Test: Eye Corrosive Positive - Source: OECD 405
d) respiratory or skin sensitisation:
Test: SKIN_INHAL Negative
e) germ cell mutagenicity:
Test: Mutagenesis Negative
i) STOT-repeated exposure:
Test: NOAEL - Route: Oral - Species: Rat = 150 mg/kg
2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 1300 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 1100 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant Yes
c) serious eye damage/irritation:
Test: Eye Irritant Yes - Source: OECD 405
d) respiratory or skin sensitisation:
Test: SKIN_INHAL No
e) germ cell mutagenicity:
Test: Mutagenesis Negative

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as Not Applicable:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
The environmental hazard of the product are reported in Section 2.1 if applicable.
Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.
CITRIC ACID MONOHYDRATE - CAS: 5949-29-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 440 mg/l - Duration h: 48 - Notes: Leuciscus idus melanotus
Endpoint: EC50 - Species: Daphnia = 1535 mg/l - Duration h: 24 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae = 990 mg/l - Duration h: 72 - Notes: Alga

c) Bacteria toxicity:
Endpoint: EC50 - Species: FANGHI > 10000 mg/l - Duration h: 16 - Notes: Pseudomonas putida
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Onchorynchus mykiss
Endpoint: EC50 - Species: Daphnia > 21100 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 168 - Notes: Selenastrum capricornutum
GLYCOLIC ACID - CAS: 79-14-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 164 mg/l - Duration h: 96 - Notes: Pimephales promelas
Endpoint: EC50 - Species: Daphnia = 141 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae = 44 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata
Endpoint: NOEC - Species: Algae = 20 mg/l - Notes: Pseudokirchneriella subcapitata
2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss
Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata
Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 504 - Notes: Daphnia magna
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 100 mg/kg - Duration h: 504 - Notes: Brachydanio rerio

12.2. Persistence and degradability
Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.
CITRIC ACID MONOHYDRATE - CAS: 5949-29-1
Biodegradability: Readily biodegradable - Test: OECD 302B - Duration: 14 d - %: 85 -
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2
Biodegradability: Readily biodegradable - Duration: 28 days - %: 96 - OECD 301
2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2
Biodegradability: Readily biodegradable - Duration: 28 days - %: 90 OECD

The surfactant(s) contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No 648/2004 on detergents. All supporting data are kept available to the competent authorities of the Member States and will be provided to those authorities if they so request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential
Until the revision date of this document, are not available experimental data on the mixture.
Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Bioaccumulation: Slightly bioaccumulative - Test: BCF - Bioconcentrantion factor <100

2-BUTOXYETHANOL; ETHYLENE GLYCOL MONOBUTYL ETHER; BUTYL CELLOSOLVE - CAS: 111-76-2

Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil

Until the revision date of this document, are not available experimental data on the mixture. Below are reported, if available, the eco-toxicological information of the components listed in paragraph 3.2.

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER - CAS: 107-98-2

Mobility in soil: Mobile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Until the revision date of this document, unknown adverse effects and symptoms towards the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Do not discharge into the ground or into drains.

See also section 6.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

ADR-Enviromental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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) 2015/830
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)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Regulation (EC) nr 648/2004 (detergents).
1999/13/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, for instructions on safe mangling you see Sections 7 and 8 and the exposure scenario - Annex I of this document.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 4: First aid measures
SECTION 5: Firefighting measures
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 10: Stability and reactivity
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information

The classification of product is based on conventional calculation method and on information reported in section 11, if available.

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.
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 0/10/20/50/100 percent of test population.
LD50:	Lethal dose, for 0/10/20/50/100 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.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.

ANNEX I
CONSUMER PRODUCT – DETERGENT FOR HARD SURFACES

Title of exposure scenario	
Detergent for general cleaning: Manual process.	
Use description	
Sector Use	SU21 – Consumer use
Product Category	PC35 – Cleaning and washing product (including solvent based products)
Description of activities/process considered on exposure scenario.	
Diluite with water as specified on the label, if necessary.	
Use following the use instruction as specified on the label.	
Leave on.	
Rinse, if necessary.	
Frequency and duration	
Use phase	- 1 time a day for daily cleaning detergents - Periodical for specific detergents
Relevant limit values of ingredients, if available, are stated in section 8 of the SDS.	
Physical appearence and concentration	
Liquid. To dilute or ready to use.	
In section 2 of the SDS of product and on the label the classification of mixture is provided.	
Mixture classification is based on ingredients classification and on chemical/physical properties stated in section 9 of the SDS of product.	
Use conditions	
Room temperature	
Good general ventilation at workplace is sufficient.	
Protection	
See section 8 of the SDS of product to more information on PPE.	Training of worker to use and maintenance of PPE is supposed.
Don't eat or drink, don't smoke.	Avoid contact with damaged skin.
No open flame.	Do not use in combination with other products
Wash hand after use.	
In case of accidental release: dilute with water and dry.	
See section 6 of the SDS in case of accidental release	
Follow use instruction as specified on the label or on technical sheet. Use good occupational hygiene practices as specified in section 7 on the SDS.	
Environmental measures	
See section 6 of the SDS in case of accidental release	
See section 12 of the SDS for ecotoxicological information of mixture and dangerous ingredients.	
See section 13 of the SDS for disposal considerations.	

Note:

SDS: Safety Data Sheet

PPE: Personal Protection Equipment