Safety Data Sheet
MIRIS LIMUN B 4795

Safety Data Sheet dated 16/3/2022, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: MIRIS LIMUN B 4795

Trade code: PFI0037724

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

Recommended uses:

Compound for Perfume

Uses advised against:

All those not listed in recommended uses

1.3. Details of the supplier of the safety data sheet

Company:

ATELIER DE PRODUCTIONS AROMATIQUES SAS - Z.A. de la Festre Sud, Route de Grasse - 06530 Saint Cézaire Sur Siagne – France

Tel. +33 493405620

Competent person responsible for the safety data sheet: Tiziana Turri (legislation@apagrasse.com)

1.4. Emergency telephone number

+33 493405620 (Mon-Thu 08.00-12.00/14.00-17.00 Fri 9.00-12.00). Performs a first technical support.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- Warning, Flam. Liq. 3, Flammable liquid and vapour.
- Warning, Skin Irrit. 2, Causes skin irritation.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning, Skin Sens. 1A, May cause an allergic skin reaction.
- Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
- Warning, Aquatic Acute 1, Very toxic to aquatic life.
- Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use ... to extinguish.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

None

Contains

(R)-p-mentha-1,8-diene; d-limonene
p-mentha-1,4(8)-diene
RESINOIDE ELEMI SUPER
citral: May produce an allergic reaction.
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool: May produce an allergic reaction.
p-Mentha-1,3-diene: May produce an allergic reaction.
3,7-Dimethyl-6-octen-1-ol: May produce an allergic reaction.
beta-Pinene: May produce an allergic reaction.
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane: May produce an allergic reaction.
Linalyl acetate: May produce an allergic reaction.
7-methyl-3-methyleneocta-1,6-diene: 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 >= 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
>= 70% - < 80%	(R)-p-mentha-1,8-diene; d-limonene	Index number: CAS: EC: REACH No.:	601-029-00-7 5989-27-5 227-813-5 01-2119529223-47	2.6/3 Flam. Liq. 3 H226 4.1/C1 Aquatic Chronic 1 H410 M=1. 4.1/A1 Aquatic Acute 1 H400 M=1. 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317
>= 1% -	Terpineol	CAS:	8000-41-7	3.2/2 Skin Irrit. 2 H315

< 3%		EC: REACH No.:	232-268-1 01-2119553062-49	3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	citral	Index number: CAS: EC: REACH No.:	605-019-00-3 5392-40-5 226-394-6 01-2119462829-23	3.4.2/1B Skin Sens. 1B H317 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	2,6-Dimethyl-7-octen-2-ol	CAS: EC: REACH No.:	18479-58-8 242-362-4 01-2119457274-37	3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	Index number: CAS: EC: REACH No.:	603-235-00-2 78-70-6 201-134-4 01-2119474016-42	3.2/2 Skin Irrit. 2 H315 3.4.2/1B Skin Sens. 1B H317 3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	p-mentha-1,4(8)-diene	CAS: EC: REACH No.:	586-62-9 209-578-0 01-2119982325-32	3.10/1 Asp. Tox. 1 H304 3.4.2/1B Skin Sens. 1B H317 4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 1% - < 3%	p-Mentha-1,3-diene	CAS: EC:	99-86-5 202-795-1	2.6/3 Flam. Liq. 3 H226 3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319 3.4.2/1B Skin Sens. 1B H317
>= 1% - < 3%	2,2-Dimethyl-3-methylenebicyclo [2.2.1] heptane	CAS: EC:	79-92-5 201-234-8	2.7/2 Flam. Sol. 2 H228 3.3/2 Eye Irrit. 2 H319 4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	Diphenyl methane	CAS: EC:	101-81-5 202-978-6	4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 3%	Benzyl acetate	CAS: EC: REACH No.:	140-11-4 205-399-7 01-2119638272-42	4.1/C3 Aquatic Chronic 3 H412
>= 0.5% - < 1%	beta-Pinene	CAS: EC: REACH No.:	18172-67-3 242-060-2 01-	2.6/3 Flam. Liq. 3 H226 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315

			2119519230-54	3.4.2/1B Skin Sens. 1B H317 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 0.5% - < 1%	3,7-Dimethyl-6-octen-1-ol	CAS: EC: REACH No.:	106-22-9 203-375-0 01-2119453995-23	3.2/2 Skin Irrit. 2 H315 3.4.2/1B Skin Sens. 1B H317 3.3/2 Eye Irrit. 2 H319
>= 0.25% - < 0.5%	1-Methyl-4-(1-methylethyl)benzene	CAS: EC: REACH No.:	99-87-6 202-796-7 01-2120807345-59	2.6/3 Flam. Liq. 3 H226 3.1/3/Inhal Acute Tox. 3 H331 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>= 0.25% - < 0.5%	1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane	CAS: EC: REACH No.:	470-82-6 207-431-5 01-2119967772-24	2.6/3 Flam. Liq. 3 H226 3.4.2/1B Skin Sens. 1B H317
>= 0.1% - < 0.25%	Linalyl acetate	CAS: EC: REACH No.:	115-95-7 204-116-4 01-2119454789-19	3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 3.3/2 Eye Irrit. 2 H319
>= 0.1% - < 0.25%	7-methyl-3-methyleneocta-1,6-diene	CAS: EC: REACH No.:	123-35-3 204-622-5 01-2119514321-56	2.6/3 Flam. Liq. 3 H226 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.4.2/1B Skin Sens. 1B H317 3.3/2 Eye Irrit. 2 H319 4.1/C2 Aquatic Chronic 2 H411 4.1/A1 Aquatic Acute 1 H400
>= 0.1% - < 0.25%	RESINOIDE ELEMI SUPER	CAS: EC:	8023-89-0 232-557-2	3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410

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 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
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:
In case of fire: Use ... to extinguish.
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 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.

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:

Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

citral - CAS: 5392-40-5
ACGIH - TWA(8h): 5 ppm - Notes: (IFV), Skin, DSEN, A4 - Body weight eff, URT irr, eye dam
Benzyl acetate - CAS: 140-11-4
ACGIH - TWA(8h): 10 ppm - Notes: A4 - URT irr

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

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. cotton, rubber, PVC or viton.

Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

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:	N.A.	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--

Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	53 °C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm2/ sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.8620 - 0. 8720	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information
No other relevant information

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
Avoid contact with combustible materials. The product could catch fire.

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:
MIRIS LIMUN B 4795
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
ATEmix - Oral 154129 mg/kg bw
ATEmix - Inhalation (Vapours) 901,854 mg/l
b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1A H317
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
The product is classified: Asp. Tox. 1 H304
Toxicological information of the main substances found in the product:
(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Terpineol - CAS: 8000-41-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 4300 mg/kg
citral - CAS: 5392-40-5
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 2250 mg/kg
2,6-Dimethyl-7-octen-2-ol - CAS: 18479-58-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 4100 mg/kg
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool - CAS: 78-70-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2790 mg/kg - Source: OECD Test Guideline 401
Test: LC50 - Route: Inhalation - Species: Mouse > 3.2 mg/kg - Duration: 1,5H
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD Test Guideline

402
p-mentha-1,4(8)-diene - CAS: 586-62-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 3850 mg/kg
p-Mentha-1,3-diene - CAS: 99-86-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 1680 mg/kg
Benzyl acetate - CAS: 140-11-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2490 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
3,7-Dimethyl-6-octen-1-ol - CAS: 106-22-9
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 3450 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2650 mg/kg
1-Methyl-4-(1-methylethyl)benzene - CAS: 99-87-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 4750 mg/kg
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane - CAS: 470-82-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2480 mg/kg
Linalyl acetate - CAS: 115-95-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 9000 ml/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 ml/kg
RESINOIDE ELEMI SUPER - CAS: 8023-89-0
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
MIRIS LIMUN B 4795
The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410
(R)-p-mentha-1,8-diene; d-limonene - CAS: 5989-27-5
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae = 8 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia = 0.36 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 0.72 mg/l - Duration h: 96
citral - CAS: 5392-40-5
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 6.8 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 6.78 mg/l - Duration h: 96
Endpoint: ECr50 - Species: Algae = 103.9 mg/l - Duration h: 72
Endpoint: EC50 - Species: FANGHI = 160 mg/l - Duration h: 0.5 - Notes: OECD 209
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool - CAS: 78-70-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 27.8 mg/l - Duration h: 96 - Notes: OECD 203
Endpoint: EC50 - Species: Daphnia = 59 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: EC50 - Species: Algae = 88.3 mg/l - Duration h: 96

Benzyl acetate - CAS: 140-11-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4 mg/l - Duration h: 96

1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane - CAS: 470-82-6

a) Aquatic acute toxicity:

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

Endpoint: EC50 - Species: Algae > 74 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 57 mg/l - Duration h: 96

Linalyl acetate - CAS: 115-95-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 11 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia = 15 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: EC50 - Species: Algae = 62 mg/l - Duration h: 72 - Notes: OECD 201

12.2. Persistence and degradability

None

N.A.

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

No endocrine disruptor substances present in concentration >= 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:	1993
IATA-UN Number:	1993
IMDG-UN Number:	1993

14.2. UN proper shipping name

ADR-Shipping Name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene, p-Mentha-1,3-diene)
IATA-Shipping Name: IATA-Shipping Name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene, p-Mentha-1,3-diene)
IMDG-Shipping Name:	FLAMMABLE LIQUID, N.O.S. ((R)-p-mentha-1,8-diene; d-limonene, p-Mentha-1,3-diene)

14.3. Transport hazard class(es)

ADR-Class:	3

ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3

14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards
ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
Most important toxic component: (R)-p-mentha-1,8-diene; d-limonene
IMDG-EmS: F-E , S-E

14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 274 601
ADR-Transport category (Tunnel restriction code): 3 (D/E)
IATA-Passenger Aircraft: 355
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 366
IATA-S.P.: A3
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

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

Restriction 3
Restriction 40
Restrictions related to the substances contained:
Restriction 75
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E1

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

SECTION 16: Other information

Text of phrases referred to under heading 3:
H226 Flammable liquid and vapour.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H302 Harmful if swallowed.
H228 Flammable solid.
H412 Harmful to aquatic life with long lasting effects.
H331 Toxic if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
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 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 3: Composition/information on ingredients
SECTION 9: Physical and chemical properties
SECTION 15: Regulatory information
SECTION 16: Other information

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**
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	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

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.