

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
LFPH 006 ALU**

Regulation (EU) n. 2020/878

Safety Data Sheet date: 20/12/2023, version 1**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: LFPH 006 ALU
SDS code: 101421EU
UFI: J6AT-T8RR-8E97-RRDT

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

Recommended use:

Industrial uses
Paint/Coating

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

Socomore SASU

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

Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 50 26

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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, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
- ⚠ Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

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Warning

Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P312 Call a POISON CENTER/doctor/... if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

- EUH208 Contains formaldehyde. May produce an allergic reaction.

Contains

triethylamine

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
$\geq 7\%$ - $< 10\%$	2-butoxyethanol; ethylene glycol monobutyl ether	Index number: CAS: EC: REACH No.: 01- 2119475108 -36	<ul style="list-style-type: none"> ◊ 3.1/3/Inhal Acute Tox. 3 H331 ◊ 3.1/4/Oral Acute Tox. 4 H302 ◊ 3.2/2 Skin Irrit. 2 H315 ◊ 3.3/2 Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral 1200 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l
$\geq 3\%$ - $< 5\%$	1-PROPOXY-2- PROPANOL	CAS: EC: REACH No.: 01- 2119474443	<ul style="list-style-type: none"> ◊ 2.6/3 Flam. Liq. 3 H226 ◊ 3.3/2 Eye Irrit. 2 H319

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		-37	
>= 1% - < 3%	triethylamine	CAS: 121-44-8 EC: 204-469-4 REACH No.: 01-2119475467-26	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.1/3/Dermal Acute Tox. 3 H311 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.2/1A Skin Corr. 1A H314 ⚠ 3.8/3 STOT SE 3 H335 <p>Specific Concentration Limits: C >= 1%: STOT SE 3 H335</p>
>= 0.1% - < 0.25%	(2-Methoxymethylethoxy)-propanol	Index number: 603_998_97_1 CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-2119450011-60	Substance with a Union workplace exposure limit.
>= 0.001% - < 0.1%	methanol	Index number: 603-001-00-X CAS: 67-56-1 EC: 200-659-6	<ul style="list-style-type: none"> ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.8/1 STOT SE 1 H370 (eyes, central nervous system) ⚠ 3.1/3/Oral Acute Tox. 3 H301 ⚠ 3.1/3/Dermal Acute Tox. 3 H311 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 <p>Specific Concentration Limits: C >= 10%: STOT SE 1 H370 3% <= C < 10%: STOT SE 2 H371</p> <p>Acute Toxicity Estimate: ATE - Oral 100 mg/kg bw ATE - Dermal 300 mg/kg bw ATE - Inhalation (Vapours) 3 mg/l</p>
>= 0.001% - < 0.1%	formaldehyde	CAS: 50-00-0 EC: 200-001-8 REACH No.: 01-2119488953-20	<ul style="list-style-type: none"> ⚠ 3.1/3/Oral Acute Tox. 3 H301 ⚠ 3.1/2/Inhal Acute Tox. 2 H330 ⚠ 3.1/3/Dermal Acute Tox. 3 H311 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.4.2/1A Skin Sens. 1A H317 ⚠ 3.5/2 Muta. 2 H341 ⚠ 3.6/1B Carc. 1B H350 ⚠ 3.8/3 STOT SE 3 H335 <p>Specific Concentration Limits: C >= 25%: Skin Corr. 1B H314 5% <= C < 25%: Skin Irrit. 2 H315</p>

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			<p>5% <= C < 25%: Eye Irrit. 2 H319 C >= 5%: STOT SE 3 H335 C >= 0,2%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral 100 mg/kg bw ATE - Dermal 270 mg/kg bw ATE - Inhalation (Gas) 100 ppmV</p>
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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 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. Obtain a medical examination.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show the packing or label.

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:

No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂)

Extinguishing media which must not be used for safety reasons:

High power water jet

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.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- Wear personal protection equipment.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Provide adequate ventilation.
- Use appropriate respiratory protection.
- 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.
- Use localized ventilation system.
- 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:
 - 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

- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
 - OEL Type: National - TWA(8h): 9.8 mg/m³, 2 ppm - STEL: 147.6 mg/m³, 30 ppm - Notes: France VLEC (Fabricant)
 - OEL Type: EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

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- OEL Type: National - TWA: 49 mg/m³, 10 ppm - STEL: 246 mg/m³, 50 ppm - Notes: France VLEC (INRS)
- 1-PROPOXY-2-PROPANOL - CAS: 1569-01-3
 - OEL Type: ACGIH - TWA: 25 ppm
- triethylamine - CAS: 121-44-8
 - OEL Type: EU - TWA(8h): 8.4 mg/m³, 2 ppm - STEL: 12.6 mg/m³, 3 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 0.5 ppm - STEL: 1 ppm - Notes: Skin, A4 - Visual impair, URT irr
 - OEL Type: National - TWA: 4.2 mg/m³, 1 ppm - STEL: 12.6 mg/m³, 1 ppm - Behaviour: Binding - Notes: France
- (2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8
 - OEL Type: National - TWA(8h): 310 mg/m³ - Notes: Germany - Notes DFG, EU
 - OEL Type: National - TWA(8h): 308 mg/m³, 50 ppm - Notes: France VLEC - TMP N° 84
 - OEL Type: EU - TWA(8h): 308 mg/m³, 50 ppm - Notes: Skin
 - OEL Type: National - TWA: 270 mg/m³ - STEL: 550 mg/m³ - Notes: Czech Republic
 - OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff
 - OEL Type: National - TWA(8h): 308 mg/m³, 50 ppm - Notes: UK - Skin
 - OEL Type: National - TWA: 307 mg/m³, 50 ppm - STEL(5 min (Mow)): 614 mg/m³, 100 ppm - Notes: Österreich
 - OEL Type: National - TWA: 308 mg/m³, 50 ppm - Notes: TWA Poland
 - OEL Type: National - TWA: 240 mg/m³ - STEL: 480 mg/m³ - Notes: Poland (NDS, NDSCh)
- methanol - CAS: 67-56-1
 - OEL Type: National - TWA(8h): 260 mg/m³, 200 ppm - STEL: 1300 mg/m³, 1000 ppm - Notes: France VLEC
 - OEL Type: EU - TWA(8h): 260 mg/m³, 200 ppm - Notes: Skin
 - OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Skin, BEI - Headache, eye dam, dizziness, nausea
 - OEL Type: TWA - TWA: 200 ppm
- formaldehyde - CAS: 50-00-0
 - OEL Type: EU - TWA(8h): 0,37 mg/m³, 0,3 ppm - STEL: 0,74 mg/m³, 0,6 ppm - Notes: Dermal sensitisation
 - OEL Type: ACGIH - TWA(8h): 0.1 ppm - STEL: 0.3 ppm - Notes: DSEN, RSEN, A1 - URT and eye irr, URT cancer
 - OEL Type: National - TWA(8h): 0.37 mg/m³, 0.3 ppm - STEL(15'): 0.74 mg/m³, 0.6 ppm
 - Notes: France (INRS)

DNEL Exposure Limit Values

- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
 - Worker Industry: 89 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects
 - Worker Industry: 75 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 - Worker Industry: 246 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
 - Worker Industry: 663 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term,

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systemic effects

Worker Industry: 98 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

Worker Industry: 217 mg/m³ - Consumer: 26 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 2.2 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Worker Industry: 65 mg/kg b.w./day - Consumer: 15 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 310 mg/m³ - Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

methanol - CAS: 67-56-1

Worker Industry: 40 mg/kg b.w./day - Consumer: 8 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 40 mg/kg b.w./day - Consumer: 8 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

formaldehyde - CAS: 50-00-0

Worker Industry: 9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.375 mg/m³ - Consumer: 0.1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 240 mg/kg b.w./day - Consumer: 102 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 0.75 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 4.1 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 0.037 mg/cm² - Consumer: 0.012 mg/cm² - Exposure: Human Dermal - Frequency: Long Term, local effects

PNEC Exposure Limit Values

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Target: Fresh Water - Value: 8.8 mg/l

Target: Marine water - Value: 0.88 mg/l

Target: Freshwater sediments - Value: 34.6 mg/kg

Target: Marine water sediments - Value: 3.46 mg/kg

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Target: Soil (agricultural) - Value: 3.13 mg/kg
 Target: Microorganisms in sewage treatments - Value: 463 mg/l

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3
 Target: Fresh Water - Value: 0.1 mg/l
 Target: Marine water - Value: 0.01 mg/l
 Target: Microorganisms in sewage treatments - Value: 4 mg/l
 Target: Freshwater sediments - Value: 0.386 mg/l - Notes:: mg/kg p.s.
 Target: Marine water sediments - Value: 0.0386 mg/kg - Notes:: mg/kg p.s.
 Target: Soil (agricultural) - Value: 0.0185 mg/kg - Notes:: mg/kg p.s.
 Target: PNEC intermittent - Value: 1 mg/l

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8
 Target: Fresh Water - Value: 19 mg/l
 Target: Marine water - Value: 1.9 mg/l
 Target: Microorganisms in sewage treatments - Value: 4168 mg/l
 Target: Freshwater sediments - Value: 70.2 mg/kg - Notes:: mg/kg p.s.
 Target: Marine water sediments - Value: 7.02 mg/kg - Notes:: mg/kg p.s.
 Target: Soil (agricultural) - Value: 2.74 mg/kg - Notes:: mg/kg p.s.
 Target: Water (intermittent discharge) - Value: 190 mg/l

methanol - CAS: 67-56-1
 Target: Fresh Water - Value: 20.8 mg/l
 Target: Marine water - Value: 2.08 mg/l
 Target: Freshwater sediments - Value: 77 mg/kg
 Target: Marine water sediments - Value: 7.7 mg/kg
 Target: Soil (agricultural) - Value: 3.18 mg/kg
 Target: Microorganisms in sewage treatments - Value: 100 mg/l

formaldehyde - CAS: 50-00-0
 Target: Fresh Water - Value: 0.44 mg/l
 Target: Marine water - Value: 0.44 mg/l
 Target: Intermittent discharge - Value: 4.44 mg/l
 Target: Sewage treatment plant - Value: 0.19 mg/l
 Target: Freshwater sediments - Value: 2.3 mg/kg
 Target: Marine water sediments - Value: 2.3 mg/kg
 Target: Soil - Value: 0.2 mg/kg

Biological Exposure Index
 N.A.

8.2. Exposure controls

See below, example of PPE to use.

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:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

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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

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Metallic	--	--
Odour:	odorless	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	>36°C	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	~65°C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	7.5	--	--
Kinematic viscosity:	> 20,5 mm ² /sec (40 °C)	--	--
Solubility in water:	miscible	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	<1.000 hPa (50°C)	--	--
Density and/or relative	~1.08 g/cm ³	--	--

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density:	(23°C)		
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	>20.6 mm ² /s (40°C)	--	--

Volatile Organic compounds - VOCs = 13.14 %

Volatile Organic compounds - VOCs = 139.28 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

Strong oxidizers.

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

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 9678,11 mg/kg bw

ATEmix - Dermal 16631,6 mg/kg bw

ATEmix - Inhalation (Vapours) 30,3834 mg/l

Skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

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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

The product is classified: STOT SE 3 H335

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Acute toxicity

ATE - Oral 1200 mg/kg bw

ATE - Inhalation (Vapours) 3 mg/l

Test: LD50 - Route: Oral - Species: Rat = 1480 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 400 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat < 2.39 mg/l - Duration: 4h

Test: LC50 - Route: Inhalation - Species: Rat > 2.21 mg/l - Duration: 4h

Test: ATE - Route: Inhalation (aerosol) = 3 mg/l

Test: ATE - Route: Oral = 1200 mg/kg bw/day

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 8.34 mg/l - Duration: 4h

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Acute toxicity

ATE - Oral 5001 mg/kg bw

ATE - Dermal 9510 mg/kg bw

ATE - Inhalation (Vapours) 3,35 mg/l

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 9510 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 3350 mg/m³ - Notes: aerosol, 7h

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour = 3.35 mg/l - Duration: 7h

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Test: ATE - Route: Skin = 9510 mg/kg
methanol - CAS: 67-56-1
Acute toxicity
ATE - Oral 100 mg/kg bw
ATE - Dermal 300 mg/kg bw
ATE - Inhalation (Vapours) 3 mg/l
Test: ATE - Route: Oral = 100 mg/kg
Test: ATE - Route: Inhalation Vapour = 3 mg/l - Duration: 4h
Test: ATE - Route: Skin = 300 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 100 mg/kg
Test: LD50 - Route: Skin - Species: Rat = 300 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat = 3 mg/l - Duration: 4h
formaldehyde - CAS: 50-00-0
Acute toxicity
ATE - Oral 100 mg/kg bw
ATE - Dermal 270 mg/kg bw
ATE - Inhalation (Gas) 100 ppmV
Test: ATE - Route: Oral = 100 mg/kg
Test: ATE - Route: Inhalation Gas = 100 ppm - Duration: 4h
Test: ATE - Route: Skin = 270 mg/kg
STOT-repeated exposure:
Test: NOAEL - Route: Inhalation Vapour - Species: Rat = 1.06 mg/l - Duration: 90 Jours
Test: NOAEL - Route: Inhalation Gas - Species: Rat = 6 ppm - Duration: 28 days
Test: LOAEL
- Route: Inhalation Gas - Species: Rat = 10 ppm - Duration: 28 days

11.2. Information on other hazards

Endocrine disrupting properties:

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

Other toxicological information:

1-PROPOXY-2-PROPANOL

May cause moderate eye irritation.

Skin contact:

Prolonged contact may cause irritation.

Repeated-dose toxicity:

Eyes: possible effect on the central nervous system

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

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a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 24 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia = 53 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 61 mg/l - Duration h: 48 - Notes: Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria > 1000 mg/l - Duration h: 3

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

a) Aquatic acute toxicity:

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

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1.466 mg/l - Duration h: 96

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria = 3.800 mg/l - Duration h: 16

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Poecilia reticulata

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 96 - Notes: Crangon crangon

Endpoint: EC50 - Species: Algae > 969 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 0.5 mg/l - Duration h: 528 - Notes: LOEC: > 0,5 mg/l, 22 days

e) Plant toxicity:

Endpoint: NOEC = 250000 mg/l

methanol - CAS: 67-56-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 15400 mg/l - Duration h: 96 - Notes: Lepomis macrochirus

Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 22000 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata; OECD 201

Endpoint: IC50 - Species: Microorganisms > 1000 mg/l - Duration h: 3

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 15800 mg/l - Duration h: 200 - Notes: Oryzias latipes

formaldehyde - CAS: 50-00-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 6.7 mg/l - Duration h: 96

Endpoint: EC50 - Species: Aquatic invertebrates = 5.8 mg/l - Duration h: 48 - Notes: OECD 202, Daphnia pulex

Endpoint: EC50 - Species: Aquatic plants = 4.89 mg/l - Duration h: 72 - Notes: OECD 201, Desmodosmus subspicatus

Endpoint: EC50 - Species: Microorganisms = 34.1 mg/l - Duration h: 120

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish >= 48 mg/l - Duration h: 672 - Notes: Oryzias latipes

Endpoint: NOEC - Species: Aquatic invertebrates >= 6.4 mg/l - Duration h: 504 - Notes: OECD 211, Daphnia magna

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**LFPH 006 ALU****12.2. Persistence and degradability**

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Biodegradability: Biodegradability rate - Duration: 28 days - %: 87

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

Biodegradability: Biodegradability rate - Test: OECD 301A - Duration: 28 days - %: 91.5

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 75

Biodegradability: Biodegradability rate - Test: OECD 302B - Duration: 13 days - %: 93

methanol - CAS: 67-56-1

Biodegradability: Readily biodegradable - Duration: 20 days - %: 95%

formaldehyde - CAS: 50-00-0

Biodegradability: Readily biodegradable - Test: OECD 301C - Duration: 14 days - %: 91%

12.3. Bioaccumulative potential

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

BCF <100

Log Pow 0.621

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Log Pow 1.01

BCF < 100

methanol - CAS: 67-56-1

Log Pow -0.77

formaldehyde - CAS: 50-00-0

Log Pow 0.35

12.4. Mobility in soil

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Log Koc 2.5

1-PROPOXY-2-PROPANOL - CAS: 1569-01-3

Log Koc 1-1,9

Volality (H: Henry's Law Constant) $3,44 \cdot 10^{-7} \text{ atm m}^3/\text{mol}$ - Notes: 25°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.

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.

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

08 01 11* wastes of paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information**14.1. UN number or ID number**

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Not classified as dangerous in the meaning of ADR, IATA and IMDG 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

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 40

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Restriction 69

Restriction 75

Listed or in compliance with the following international inventories:

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

N.A.

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:

H331 Toxic if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H226 Flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H318 Causes serious eye damage.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

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H370 (eyes, central nervous system) Causes damage to organs (eyes, central nervous system).

H301 Toxic if swallowed.

H370 Causes damage to organs.

H371 May cause damage to organs.

H330 Fatal if inhaled.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

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This safety data sheet has been completely updated in compliance to Regulation 2020/878. 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 Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method

Due to the integration of the Mader Aero products range into the Socomore Group, all Safety Data Sheets have been re-evaluated on the basis of consolidated information. This may have led to significant changes in our Safety Data Sheets. If you have any questions regarding these changes, you can contact us at the address indicated in section 1.

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

Important confidentiality : this document contains confidential information that is proprietary to SOCOMORE. Subject to legal provisions determining otherwise, the distribution, republication or re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

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 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.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
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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.