

Safety Data Sheet

HYDROFAN SAPPHIRE BLUE

Safety Data Sheet dated 06/12/2023 version 4



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

1.1. Product identifier

Mixture identification:

Trade name: HYDROFAN SAPPHIRE BLUE

Trade code: L0HF0163

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

Recommended use: Coatings and paints, thinners, paint removers

Mono compound enamel - finish coat

Water pigmented dispersion

Professional uses

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111

First Email: safety@lechler.eu

1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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

None.

2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
Endocrine disrupting properties-Toxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Endocrine disrupting properties-Ecotoxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: HYDROFAN SAPPHIRE BLUE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥5 - ≤7 %	C.I. Pigment Blue 15	CAS:147-14-8 EC:205-685-1	Not classified as hazardous	01-2119458771-32
≥3 - ≤5 %	2-butoxyethanol; ethylene glycol monobutyl ether	CAS:111-76-2 EC:203-905-0 Index:603-014-00-0	Acute Tox. 3, H331 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw ATE - Inhalation (Vapours): 3mg/l	01-2119475108-36
≥0.1 - ≤0.25 %	triethylamine	CAS:121-44-8 EC:204-469-4 Index:612-004-00-5	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 3, H331 Acute Tox. 3, H311 Skin Corr. 1A, H314 STOT SE 3, H335 Specific Concentration Limits: C ≥ 1%: STOT SE 3 H335	01-2119475467-26
< 0,1 %	1-methoxy-2-propanol	CAS:107-98-2 EC:203-539-1 Index:603-064-00-3	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35
< 0,1 %	2-methylisothiazol-3(2H)-one	CAS:2682-20-4 EC:220-239-6 Index:613-326-00-9	Acute Tox. 3, H301 Acute Tox. 2, H330 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10, EUH071 Specific Concentration Limits: C ≥ 0,0015%: Skin Sens. 1A H317	01-2120764690-50
< 0,1 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 3, H301 Acute Tox. 2, H330 Acute Tox. 2, H310 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071 Specific Concentration Limits: C ≥ 0,6%: Skin Corr. 1C H314 0,06% ≤ C < 0,6%: Skin Irrit. 2 H315 0,06% ≤ C < 0,6%: Eye Irrit. 2 H319 C ≥ 0,0015%: Skin Sens. 1A H317 C ≥ 0,6%: Eye Dam. 1 H318	

Substances in nanoform:

C.I. Pigment Blue 15	CAS:147-14-8 EC:205-685-1	Particle size distribution:	D10: ≥ 10 nm ≤ 50 nm D50: ≥ 10 nm ≤ 100 nm D90: ≥ 20 nm ≤ 150 nm (Measurement technique: TEM)
		Shape and aspect ratio:	Orthorhombic, 1 to 3 (Measurement technique: TEM)
		Crystallinity:	Crystalline: = 100% - (Measurement technique: X-ray Diffraction (XRD))
		Surface Treatment - Agent:	No specific treatment

Specific surface area:

$\geq 30\text{m}^2/\text{m}^3 \leq 94\text{m}^2/\text{m}^3$ -
(Measurement technique:
Brunauer, Emmett and Teller
(BET) method using Nitrogen)

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

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

N.A.

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

N.A.

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

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

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

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

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.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
C.I. Pigment Blue 15 CAS: 147-14-8	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m ³ ; Short Term: 2 mg/m ³
2-butoxyethanol; ethylene glycol monobutyl ether CAS: 111-76-2	EU		Long Term: 98 mg/m ³ - 20 ppm; Short Term: 246 mg/m ³ - 50 ppm Behaviour Indicative 2000/39/EC
	EU EH40		Identifies the possibility of significant uptake through the skin Long Term: 25 ppm; Short Term: 50 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
triethylamine CAS: 121-44-8	ACGIH		Long Term: 0,5 ppm; Short Term: 1 ppm Skin, A4 - Visual impair, URT irr
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 8 mg/m ³ - 2 ppm; Short Term: 17 mg/m ³ - 4 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
1-methoxy-2-propanol CAS: 107-98-2	EU		Long Term: 8,4 mg/m ³ - 2 ppm; Short Term: 12,6 mg/m ³ - 3 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
	EU EH40		Long Term: 375 mg/m ³ - 100 ppm; Short Term: 568 mg/m ³ - 150 ppm Behaviour Indicative 2000/39/EC Identifies the possibility of significant uptake through the skin Long Term: 375 mg/m ³ - 100 ppm; Short Term: 560 mg/m ³ - 150 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	ACGIH		Long Term: 50 ppm; Short Term: 100 ppm A4 - Eye and URT irr

Biological limit values

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

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn
Value: 200 mg/g Creatinine; Medium: Urine
Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposure

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn; End of working week
Value: 200 mg/g Creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn; End of working week
Value: 17 mmol/mmol creatinine; Medium: Urine
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: Immediately after exposure or after working hours
Value: 150 mg/g Creatinine; Medium: Urine
Remark: TRGS 903 - Biological limit values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: In case of long-term exposure: after more than one shift
Value: 100 mg/L; Medium: Urine
Remark: TRGS 903 - Biological limit values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn
Value: 200 mg/g Creatinine; Medium: Urine
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn
Value: 200 mg/g Creatinine; Medium: Urine
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: methoxy acetic acid; Sampling Period: during long-term exposure: at the end of the work shift after several consecutive workdays
Value: 150 mg/g Creatinine; Medium: Urine
Remark: Slovenia. BAT-values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of workday
Value: 200 mg/g Creatinine; Medium: Urine
Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: 2-butoxy acetic acid; Sampling Period: Immediately after exposure or after working hours
Value: 150 mg/g Creatinine; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: After shift
Value: 240 Millimoles per mole Creatinine; Medium: Urine
Remark: UK. Biological monitoring guidance values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn
Value: 200 mg/g Creatinine; Medium: Urine
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of workday
Value: 200 mg/g Creatinine; Medium: Urine
Remark: VE. Biological Exposure Limits

Sampling Period: In case of long-term exposure: after more than one shift

Sampling Period: End of turn

Sampling Period: In case of long-term exposure: after more than one shift

1-methoxy-2-propanol
CAS: 107-98-2

Biological Indicator: 1-Methoxypropan-2-ol; Sampling Period: Immediately after exposure or after working hours
Value: 15 mg/L; Medium: Urine
Remark: TRGS 903 - Biological limit values

Biological Indicator: 1-methoxypropane-2-ol; Sampling Period: End of turn
Value: 15 mg/L; Medium: Urine
Remark: Slovenia. BAT-values

Biological Indicator: 1-methoxypropanol-2; Sampling Period: Immediately after exposure or after working hours
Value: 2219 micromol per litre; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Biological Indicator: 1-methoxypropanol-2; Sampling Period: Immediately after exposure or after working hours
Value: 20 mg/L; Medium: Urine
Remark: Svizzera. Lista di valori BAT

Predicted No Effect Concentration (PNEC) values

2-butoxyethanol; ethylene glycol monobutyl ether
CAS: 111-76-2
Exposure Route: Fresh Water; PNEC Limit: 8,8 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 26,4 mg/l
Exposure Route: Marine water; PNEC Limit: 0,88 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 34,6 mg/kg dry weight (d.w.)
Exposure Route: Marine water sediments; PNEC Limit: 3,46 mg/kg dry weight (d.w.)
Exposure Route: Soil; PNEC Limit: 2,33 mg/kg dry weight (d.w.)
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 436 mg/l
Exposure Route: Fresh Water; PNEC Limit: 0,064 mg/l

triethylamine
CAS: 121-44-8

Exposure Route: Marine water; PNEC Limit: 0,006 mg/l
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0,064 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 0,199 mg/kg
Exposure Route: Soil; PNEC Limit: 2,361 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Derived No Effect Level (DNEL) values

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

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Consumer: 147 mg/m³
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Consumer: 426 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 26,7 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 59 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 6,3 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 246 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 1091 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 98 mg/m³

triethylamine
CAS: 121-44-8

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 12,6 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)
Worker Professional: 12,6 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 12,1 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 8,4 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 8,4 mg/m³

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State: Liquid

Colour: Black

Odour: N.A.

pH: Not Relevant

Kinematic viscosity: > 20,5 mm²/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: > 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.04 g/cm³

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Kinematic viscosity m²/s (40°C) > 20,5 mm²/sec (40 °C)

Viscosity: = 59.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

Particle characteristics:

Particle size: N.A.

Nanoforms: See Nanoform information in Section 3.

9.2. Other information

Evaporation rate: N.A.

Miscibility: N.A.

Conductivity: N.A.

No other relevant information

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

Stable under normal conditions

10.2. Chemical stability

Data not available.

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 Preparation**

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral : 25982.4 mg/kg bw

ATEmix - Dermal : 361167 mg/kg bw

ATEmix - Inhalation (Vapours) : 325.612 mg/l

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation	Not classified	Based on available data, the classification criteria are not met
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 on main components of the mixture:

2-butoxyethanol; ethylene glycol monobutyl ether	a) acute toxicity	ATE - Oral : 1200 mg/kg bw	
		ATE - Inhalation (Vapours) : 3 mg/l	
		LD50 Oral Rat = 1746, mg/kg	OECD Test Guideline 401
		LD50 Skin Rabbit > 2000, mg/kg	OECD Test Guideline 402
triethylamine	a) acute toxicity	LD50 Oral Rat = 730 mg/kg	OECD Test Guideline 401
		LC50 Inhalation Rat = 3496 Ppm 1h	OECD Test Guideline 403
		LD50 Skin Rabbit = 580 mg/kg	OECD Test Guideline 402
1-methoxy-2-propanol	a) acute toxicity	LD50 Oral Rat = 4016 mg/kg	
		LC0 Inhalation Rat > 7000 Ppm 6h	OECD Test Guideline 403
		LD50 Skin Rat > 2000 mg/kg	

11.2. Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
2-butoxyethanol; ethylene glycol monobutyl ether	CAS: 111-76-2 - EINECS: 203- 905-0 - INDEX: 603-014-00-0	a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> (rainbow trout) = 1474 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity : EC50 Invertebrates <i>Daphnia magna</i> (Water flea) = 1550 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae <i>Pseudokirchneriella subcapitata</i> (green algae) = 911 mg/L 72 H OECD Test Guideline 201
		b) Aquatic chronic toxicity : NOEC Fish <i>Brachydanio rerio</i> > 100 mg/L 21 D OECD Test Guideline 204

1-methoxy-2-propanol

CAS: 107-98-2 - a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea)
EINECS: 203- 25900 mg/L 48 H
539-1 - INDEX:
603-064-00-3

e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 7 D

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration \geq 0.1%

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

N.A.

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.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Toxic ingredients quantity: 0.00

Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

Air (IATA):

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisions: N/A

Sea (IMDG):

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisions: 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)

Regulation (EU) n. 2020/878

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: None.

Restrictions related to the substances contained: 40, 75

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

None

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

1: Low hazard to waters

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration \geq 0.1%

Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 5.21 %

Volatile Organic compounds - VOCs = 54.15 g/L

Estimated Total Content of Water 73.15 %

Estimated Total Solid Content 21.65 %

Classification according to VbF

Classification according to VbF A III - Flash Point $>$ 55 °C up to 100 °C, at 15 °C not miscible with water

Mal-Code (Denmark)

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number	Regulatory Base
1 - 3	194	m3 air/10 g	1993	Administrative determined MAL-Factors

Biocides

REGULATION (EC) No 528/2012

Substance

C(M)IT/MIT (3:1)

Treated Article

In-can preservatives

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

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.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
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.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
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.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information