

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

1.1. Product identifier

Mixture identification:

Trade name: HYDROFAN FROST BLUE

Trade code: LNHF0169

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 FROST BLUE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥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	01-2119475108-36
			Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw ATE - Inhalation (Vapours): 3mg/l	
≥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	01-2119475467-26
			Specific Concentration Limits: C \geq 1%: STOT SE 3 H335	
< 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 \geq 0,0015%: Skin Sens. 1A H317	,
< 0,1 %	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	Index:613-167-	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: $C \ge 0,6\%$: Skin Corr. 1C H314 $0,06\% \le C < 0,6\%$: Skin Irrit. 2 H315 $0,06\% \le C < 0,6\%$: Eye Irrit. 2 H319 $C \ge 0,0015\%$: Skin Sens. 1A H317 $C \ge 0,6\%$: Eye Dam. 1 H318	

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

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 Country Occupational Exposure Limit Type

2-butoxyethanol; ethylene glycol monobutyl ether CAS: 111-76-2	e EU	Long Term: 98 mg/m3 - 20 ppm; Short Term: 246 mg/m3 - 50 ppm Behaviour Indicative 2000/39/EC
	EU EH40 UNITED KINGDON GREAT BRITAIN NORTHEF IRELAND	
triethylamine CAS: 121-44-8	ACGIH	Long Term: 0,5 ppm; Short Term: 1 ppm Skin, A4 - Visual impair, URT irr
	EH40 UNITED KINGDOM GREAT BRITAIN NORTHEF IRELAND	
	EU	Long Term: 8,4 mg/m3 - 2 ppm; Short Term: 12,6 mg/m3 - 3 ppm Behaviour Indicative 2000/39/EC
	EU	Identifies the possibility of significant uptake through the skin
1-methoxy-2-propanol CAS: 107-98-2	EU	Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm Behaviour Indicative 2000/39/EC
	EU	Identifies the possibility of significant uptake through the skin
	EH40 UNITED KINGDON GREAT BRITAIN NORTHEF IRELAND	
	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	Value: 200 mg/g Crea	utoxyacetic acid (BAA); Sampling Period: End of turn tinine; Medium: Urine owable occupational exposure limits in the workplace - Table 3. Adopted Biological
	Value: 200 mg/g Crea	utoxyacetic acid (BAA); Sampling Period: End of turn; End of working week tinine; Medium: Urine lic. Biological Exposure Indices
	Value: 17 mmol/mmo	utoxyacetic acid (BAA); Sampling Period: End of turn; End of working week l creatinine; Medium: Urine lic. Biological Exposure Indices
	working hours	utoxyacetic acid (BAA); Sampling Period: Immediately after exposure or after tinine; Medium: Urine Biological limit values
	Biological Indicator: E than one shift Value: 100 mg/L; Meo Remark: TRGS 903 -	
	Value: 200 mg/g Crea	utoxyacetic acid (BAA); Sampling Period: End of turn tinine; Medium: Urine :an Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices
	Value: 200 mg/g Crea	utoxyacetic acid (BAA); Sampling Period: End of turn tinine; Medium: Urine Iorm 1796 - Biological Exposure Indices
	work shift after sever	nethoxy acetic acid; Sampling Period: during long-term exposure: at the end of the al consecutive workdays tinine; Medium: Urine
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	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	Biological Indicator: 1-Methoxypropan-2-ol; Sampling Period: Immediately after exposure or after working
CAS: 107-98-2	hours Value: 15 mg/L; Medium: Urine Remark: TRGS 903 - Biological limit values
	Biological Indicator: 1-methoyxypropane-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 Co	ncentration (PNEC) values
2-butoxyethanol; ethylene glycol monobuty ether CAS: 111-76-2	Exposure Route: Fresh Water; PNEC Limit: 8,8 mg/l yl
L L L / U 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.)
triethylamine	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 436 mg/l
CAS: 121-44-8	Exposure Route: Fresh Water; PNEC Limit: 0,064 mg/l
	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 Leve	el (DNEL) values
2-butoxyethanol; ethylene glycol monobuty	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects yl Consumer: 147 mg/m3

2-butoxyethanol; Exposure Route: Human ethylene glycol monobutyl Consumer: 147 mg/m3 ether CAS: 111-76-2

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 r	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.			
	normai use.		
Respiratory protection: N.A.			
Thermal Hazards:			
N.A.			
Environmental exposure	controls:		

N.A.

Hygienic and Technical measures

N.A.

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: 1.03 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. 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 : 28272.6 mg/kg bw	
	ATEmix - Dermal : 389399 mg/kg bw	
	ATEmix - Inhalation (Vapours) : 219.059 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 comp	ponents of the mixture:	
2-butoxyethanol; a) acute toxicity ethylene glycol monobutyl ether	ATE - Oral : 1200 mg/kg bw	

ATE - Inhalation (Vapours) : 3 mg/l LD50 Oral Rat = 1746, mg/kg

		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 LD50 Skin Rat > 2000 mg/kg	OECD Test Guideline 403

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 Oncorhynchus mykiss (rainbow trout) = 1474 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 1550 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Pseudokirchneriella subcapitata (green algae) = 911 mg/L 72 H OECD Test Guideline 201
		b) Aquatic chronic toxicity : NOEC Fish Brachydanio rerio > 100 mg/L 21 D OECD Test Guideline 204
1-methoxy-2-propanol	CAS: 107-98-2 - EINECS: 203- 539-1 - INDEX: 603-064-00-3	a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) 25900 mg/L 48 H

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 >= 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. 618/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (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.

3: Severe hazard to waters

German Lagerklasse according to TRGS 510:

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 5.32 %

Volatile Organic compounds - VOCs = 54.79 g/L

Estimated Total Content of Water 75.07 %

Estimated Total Solid Content 19.61 %

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 - 1	178	m3 air/10 g	1993	Administrative determined MAL-
		_		Factors

Biocides

REGULATION (EC) No 528/2012

Substance	Treated Article
C(M)IT/MIT (3:1)	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 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information