

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

# 1.1. Product identifier

Mixture identification:

Trade name: MACROBASE SUN YELLOW

Trade code: L0MC0008

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

Recommended use: Coatings and paints, thinners, paint removers

Coloured concentrated base

Fluid 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)

Flam. Liq. 3 Flammable liquid and vapour.

STOT SE 3 May cause drowsiness or dizziness.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



#### Hazard statements

- H226 Flammable liquid and vapour.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

# **Precautionary statements**

P210	Keep away from heat, hot	t surfaces, sparks, open	flames and other ignition sources.	No smoking.
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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378	In case of fi	re: Use dry	y sand, dr	y chemic	al or alcohol-resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

# **Special Provisions:**

EUH208	Contains 2-hydroxyethyl methacrylate. May produce an allergic reaction.
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EUH066 Repeated exposure may cause skin dryness or cracking.

# Contains

n-butyl acetate

heptan-2-one

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

Restricted to professional users.

# 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: MACROBASE SUN YELLOW

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

Qty	Name	Ident. Numb.	Classification	<b>Registration Number</b>
≥20 - ≤25 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025- 00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
≥3 - ≤5 %	barium sulfate	CAS:7727-43-7 EC:231-784-4	Not classified as hazardous	01-2119491274-35
≥1 - ≤2.5 %	heptan-2-one	CAS:110-43-0 EC:203-767-1 Index:606-024- 00-3	Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	01-2119902391-49
≥1 - ≤2.5 %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022- 00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; STOT SE 3, H335	01-2119488216-32
≥0.5 - ≤1 %	trizinc bis(orthophosphate)	CAS:7779-90-0 EC:231-944-3 Index:030-011- 00-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119485044-40
≥0.3 - ≤0.5 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195- 00-7	STOT SE 3, H336; Flam. Liq. 3, H226	01-2119475791-29
≥0.25 - ≤0.3 %	2-ethylhexanoic acid and its salts, with the exception of those specified elsewhere in this Annex	CAS:85203-81-2 EC:286-272-3 Index:607-230- 00-6	Repr. 1B, H360D; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	01-2119979093-30
≥0.1 - ≤0.25 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023- 00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373	

≥0.1 - ≤0.25 %	2-hydroxyethyl methacrylate	CAS:868-77-9 EC:212-782-2 Index:607-124- 00-X	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	01-2119490169-29
< 0.1 %	phosphoric acid	CAS:7664-38-2 EC:231-633-2 Index:015-011- 00-6	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Specific Concentration Limits: $C \ge 25\%$ : Skin Corr. 1B H314 $10\% \le C < 25\%$ : Skin Irrit. 2 H315 $10\% \le C < 25\%$ : Eye Irrit. 2 H315	
< 0.1 %	(2-methoxymethylethoxy)propano	l CAS:34590-94-8 EC:252-104-2	Substance with a Union workplace exposure limit.	01-2119450011-60
< 0.1 %	Cumene	CAS:98-82-8 EC:202-704-5 Index:601-024- 00-X	Flam. Liq. 3, H226; Carc. 1B, H350; Asp. Tox. 1, H304; STOT SE 3, H335; Aquatic Chronic 2, H411	5

# **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 immediatley and dispose off safely.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

# 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment. Remove all sources of ignition.

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.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

# Do not eat or drink while working. See also section 8 for recommended protective equipment.

## Advice on general occupational hygiene:

#### 7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

# 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 EH40 n-butyl acetate UNITED Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm CAS: 123-86-4 KINGDOM OF GREAT **BRITAIN AND** NORTHERN **TRFLAND** EU Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative 2019/1831/EU Long Term: 50 ppm; Short Term: 150 ppm ACGIH Eye and URT irr barium sulfate EH40 UNITED Long Term: 10 mg/m3 CAS: 7727-43-7 KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term GREAT exposure limit should be used. BRITAIN AND NORTHERN IRELAND EH40 UNITED Long Term: 4 mg/m3 KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. GREAT BRITAIN AND NORTHERN IRELAND

	ACGIH		Long Term: 5 mg/m3 I, E - Pneumoconiosis
heptan-2-one CAS: 110-43-0	ACGIH		Long Term: 50 ppm Eye and skin irr
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 237 mg/m3 - 50 ppm; Short Term: 475 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	EU		Long Term: 238 mg/m3 - 50 ppm; Short Term: 475 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
xylene CAS: 1330-20-7	ACGIH		Long Term: 20 ppm A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	EU		Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
2-methoxy-1-methylethyl acetate CAS: 108-65-6	EU		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 274 mg/m3 - 50 ppm; Short Term: 548 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
ethylbenzene CAS: 100-41-4	EU		Long Term: 442 mg/m3 - 100 ppm; Short Term: 884 mg/m3 - 200 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 441 mg/m3 - 100 ppm; Short Term: 552 mg/m3 - 125 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: 20 ppm OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair
phosphoric acid CAS: 7664-38-2	EU		Long Term: 1 mg/m3; Short Term: 2 mg/m3 Behaviour Indicative 2000/39/EC
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	ACGIH		Long Term: 1 mg/m3; Short Term: 3 mg/m3 URT, eye and skin irr
(2- methoxymethylethoxy) propanol CAS: 34590-94-8	EU		Long Term: 308 mg/m3 - 50 ppm Behaviour Indicative 2000/39/EC

	EU		Identifies the possibility of significant uptake through the skin		
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 308 mg/m3 - 50 ppm Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
	ACGIH		Long Term: 50 ppm Liver & CNS eff		
Cumene CAS: 98-82-8	EU		Long Term: 50 mg/m3 - 10 ppm; Short Term: 250 mg/m3 - 50 ppm Behaviour Indicative 2019/1831/EU		
	EU		Identifies the possibility of significant uptake through the skin		
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 125 mg/m3 - 25 ppm; Short Term: 250 mg/m3 - 50 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: 5 ppm A3 - URT adenoma, neurological eff		
Biological limit values					
xylene CAS: 1330-20-7	Value: 1.5	mg/L; Medium	e; Sampling Period: End of turn : Blood al Exposure Limits		
	Value: 1.5	g/l; Medium: U	ylhippuric acid; Sampling Period: End of turn Irine ological Exposure Indices		
	Biological Indicator: xylene; Sampling Period: End of turn Value: 1.5 mg/L; Medium: Blood Remark: Slovakia. Biological Limit Values				
	Value: 200	0 mg/L; Mediur	of 2,3,4-methylhippuric acid; Sampling Period: End of turn m: Urine cal Limit Values		
	Value: 3 g/	'l; Medium: Urii	ylhypuric acid; Sampling Period: End of turn ne cal limit values		
	Value: 2 g/	ndicator: meth 'I; Medium: Urii 'ovenia. BAT-va			
	Value: 1.5	mg/L; Medium	e; Sampling Period: Immediately after exposure or after working hours : Blood ogical limit values		
	after worki Value: 2 g/	ng hours 'I; Medium: Uriı	ylhippuric acid (all isomers); Sampling Period: Immediately after exposure or ne ogical limit values		
	Value: 2 m	g/L; Medium: (	ylhippuric acid; Sampling Period: Last 4 hours of shift Jrine zardous Chemical Substances Regulations, Biological Exposure Indices.		
	Biological I		(o-, m-, p-)methylhippuric acid; Sampling Period: End of turn; End of working		
		mg/L; Medium ccupational exp	: Urine oosure limits based on biological monitoring (JSOH).		
	work day / Value: 1.5	at the end of a g/l; Medium: U			
	Value: 1 m	g/L; Medium: E	e; Sampling Period: End of workday Blood on on health surveillance in the workplace 2014		

	Biological Indicator: Methylhippuric acid; Sampling Period: At the end of exposure, in 4 hours Value: 2 mg/L; Medium: Urine Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits
	Biological Indicator: methyl hippuric acid; Sampling Period: After shift Value: 5 Millimoles per liter; Medium: Urine Remark: Finland. Biological limit values
	Biological Indicator: methyl hippuric acid; Sampling Period: Immediately after exposure or after working hours Value: 2 g/l; Medium: Urine Remark: Svizzera. Lista di valori BAT
ethylbenzene CAS: 100-41-4	Biological Indicator: mandelic acid; Sampling Period: after the last shift of the last day of the work week Value: 15 g/g creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices
	Biological Indicator: Ethylbenzene; Sampling Period: after the last shift of the last day of the work week Value: 15 g/g creatinine; Medium: Air at the end of exhalation Remark: Argentina. Biological Exposure Indices
	Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week Value: 15 g/g creatinine; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents
	Biological Indicator: total mandelic acid plus phenylglyoxylic acid; Sampling Period: End of turn Value: 2000 mg/g Creatinine; Medium: Urine Remark: Bulgaria. Biological limit values
	Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 1500 mg/g Creatinine; Medium: Urine Remark: Chile. Biological Limit Values
	Biological Indicator: Sum of mandelic acid and phenyl glyoxylic acid; Sampling Period: End of turn Value: 15 g/g creatinine; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu
	Biological Indicator: Ethylbenzene; Sampling Period: during exposure Value: 141 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits
	Biological Indicator: Ethylbenzene; Sampling Period: during exposure Value: 1.5 mg/L; Medium: Blood Remark: Croatia. Biological Exposure Limits
	Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week Value: 112 mol/mol creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits
	Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week Value: 15 g/g creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits
	Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 1500 mg/g Creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices
	Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 1100 micromoles per millimole creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices
	Biological Indicator: mandelic acid; Sampling Period: After the work shift at the end of week or exposure period Value: 5.2 Millimoles per liter; Medium: Urine Remark: Finland. Biological limit values
	Biological Indicator: mandelic acid + phenylglyoxylic acid; Sampling Period: Immediately after exposure or after working hours Value: 250 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values
	Biological Indicator: mandelic acid; Sampling Period: After shift Value: 1500 mg/g Creatinine; Medium: Urine Remark: Hungary. Permissible limit values of biological exposure (effect) indices
	Biological Indicator: mandelic acid; Sampling Period: After shift Value: 1110 micromoles per millimole creatinine; Medium: Urine

Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: Mandelic acid; Sampling Period: End of turn; End of working week Value: 15 g/g creatinine; Medium: Urine Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Ethylbenzene Medium: Air at the end of exhalation Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Sum of Mandelic acid plus phenylglyoxylic acid; Sampling Period: End of turn; End of working week

Value: 7 g/g creatinine; Medium: Urine Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Ethylbenzene; Sampling Period: Not critical Medium: exhaled air Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Sum of mandelic acid and phenylglyoxylic acids; Sampling Period: End of turn Value: 25 g/g creatinine; Medium: Urine Remark: New Zealand. Biological Exposure Indices

Biological Indicator: Sum of mandelic acid and phenyl glyoxylic acid; Sampling Period: End of turn Value: 7 g/g creatinine; Medium: Urine Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: End of working week Value: 15 g/g creatinine; Medium: Urine Remark: Romania. Biological limit values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: End of turn Value: 12 mg/L; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure: after more than one shift Value: 1600 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more than one shift Value: 986 micromol per litre; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure: after more than one shift Value: 10590 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 1067 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 799 micromoles per millimole creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more than one shift Value: 803 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more than one shift Value: 744 micromoles per millimole creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 250 mg/g Creatinine; Medium: Urine Remark: Slovenia. BAT-values

Biological Indicator: Mandelic acid; Sampling Period: End of turn; End of working week Value: 15 g/g creatinine; Medium: Urine Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

	Biological Indicator: Ethylbenzene Medium: Air at the end of exhalation
	Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.
	Biological Indicator: sum of mandelic acid and phenylglyoxilic acid; Sampling Period: FSL Value: 700 mg/g Creatinine; Medium: Urine Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values
	Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: Immediately after exposure or
	after working hours Value: 600 mg/g Creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicator: Sum of mandelic acid and phenyl glyoxylic acid; Sampling Period: End of turn Value: 15 g/g creatinine; Medium: Urine Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)
	Biological Indicator: Mandelic acid; Sampling Period: End of workday at end of workweek Value: 7 g/g creatinine; Medium: Urine Remark: VE.Biological Exposure Limits
	Biological Indicator: Ethylbenzene; Sampling Period: At discretion Medium: in exhaled air Remark: VE.Biological Exposure Limits
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Cumene CAS: 98-82-8	Biological Indicator: 2-phenyl-2-propanol; Sampling Period: Immediately after exposure or after working hours
	Value: 10 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values
	Biological Indicator: 2-phenyl-2-propanol; Sampling Period: End of turn Value: 10 mg/g Creatinine; Medium: Urine Remark: Slovenia. BAT-values
	Biological Indicator: 2-phenyl-2-propanol; Sampling Period: Immediately after exposure or after working
	hours Value: 20 mg/g Creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicator: 2-phenyl-2-propanol; Sampling Period: Immediately after exposure or after working hours Value: 166 micromoles per millimole creatinine; Medium: Urine
	Remark: Svizzera. Lista di valori BAT
Predicted No Effect C	oncentration (PNEC) values
n-butyl acetate CAS: 123-86-4	Exposure Route: Fresh Water; PNEC Limit: 0.18 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.36 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.01 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 0.98 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 0.09 mg/kg
	Exposure Route: Soil; PNEC Limit: 0.09 mg/kg Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 35.6 mg/l
barium sulfate	Exposure Route: Fresh Water; PNEC Limit: 0.115 mg/l
CAS: 7727-43-7	
	Exposure Route: Freshwater sediments; PNEC Limit: 600.4 mg/kg
	Exposure Route: Soil; PNEC Limit: 207.7 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62.6 mg/l
heptan-2-one CAS: 110-43-0	Exposure Route: Fresh Water; PNEC Limit: 0.098 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.009 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 982 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 1.89 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 0.189 mg/kg
	Exposure Route: Soil; PNEC Limit: 0.321 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 12.5 mg/l
xylene CAS: 1330-20-7	Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l
D	

		Intermittent releases (fresh water); PNEC Limit: 0.32 mg/l
		Marine water; PNEC Limit: 0.32 mg/l
		Freshwater sediments; PNEC Limit: 12.46 mg/kg
		Marine water sediments; PNEC Limit: 12.46 mg/kg
	Exposure Route:	Soil; PNEC Limit: 2.31 mg/kg
	Exposure Route:	Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l
trizinc bis(orthophosphate)	Exposure Route:	Fresh Water; PNEC Limit: 0.206 mg/l
CAS: 7779-90-0		
	Exposure Poute	Marine water; PNEC Limit: 0.0061 mg/l
		Freshwater sediments; PNEC Limit: 117.8 mg/kg
	•	Marine water sediments; PNEC Limit: 56.5 mg/kg
2 mothovy 1 mothylothyl		Soil; PNEC Limit: 35.6 mg/kg Fresh Water; PNEC Limit: 0.635 mg/kg
acetate CAS: 108-65-6	exposure Route.	Fresh Water, PNEC Limit: 0.655 mg/kg
	Exposure Route:	Intermittent releases (fresh water); PNEC Limit: 6.35 mg/l
	Exposure Route:	Marine water; PNEC Limit: 0.064 mg/kg
	Exposure Route:	Freshwater sediments; PNEC Limit: 3.29 mg/kg
	Exposure Route:	Marine water sediments; PNEC Limit: 0.329 mg/kg
	Exposure Route:	Soil; PNEC Limit: 0.29 mg/kg
	Exposure Route:	Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
2-hydroxyethyl	Exposure Route:	Fresh Water; PNEC Limit: 0.482 mg/l
methacrylate CAS: 868-77-9		
	Exposure Route:	Marine water; PNEC Limit: 0.482 mg/l
	Exposure Route:	Microorganisms in sewage treatments; PNEC Limit: 10 mg/l
	Exposure Route:	Intermittent releases (fresh water); PNEC Limit: 1 mg/l
	Exposure Route:	Freshwater sediments; PNEC Limit: 3.79 mg/kg
	Exposure Route:	Marine water sediments; PNEC Limit: 3.79 mg/kg
	Exposure Route:	Soil; PNEC Limit: 0.476 mg/kg
(2-	Exposure Route:	Fresh Water; PNEC Limit: 19 mg/l
methoxymethylethoxy) propanol CAS: 34590-94-8		
	Exposure Route:	Intermittent releases (fresh water); PNEC Limit: 190 mg/l
	Exposure Route:	Marine water; PNEC Limit: 1.9 mg/l
	Exposure Route:	Freshwater sediments; PNEC Limit: 70.2 mg/kg
	Exposure Route:	Marine water sediments; PNEC Limit: 7.02 mg/kg
	Exposure Route:	Soil; PNEC Limit: 2.74 mg/kg
	Exposure Route:	Microorganisms in sewage treatments; PNEC Limit: 4168 mg/l
Cumene CAS: 98-82-8	Exposure Route:	Fresh Water; PNEC Limit: 0.035 mg/l
	Exposure Route:	Marine water; PNEC Limit: 0.004 mg/l
		Intermittent releases (fresh water); PNEC Limit: 0.012 mg/l
	Exposure Route:	Microorganisms in sewage treatments; PNEC Limit: 200 mg/l
		Freshwater sediments; PNEC Limit: 3.22 mg/kg
		Marine water sediments; PNEC Limit: 0.322 mg/kg
		Soil; PNEC Limit: 0.624 mg/kg
Derived No Effect Level		
n-butyl acetate CAS: 123-86-4		Human Inhalation; Exposure Frequency: Long Term, systemic effects : 300 mg/m3
		Human Inhalation; Exposure Frequency: Short Term, systemic effects
		Human Inhalation; Exposure Frequency: Long Term, local effects

	Worker Industry: 300 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 300 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 300 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 6 mg/kg dry weight (d.w.)
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 6 mg/kg dry weight (d.w.)
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 2 mg/kg dry weight (d.w.)
	Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 2 mg/kg dry weight (d.w.)
barium sulfate CAS: 7727-43-7	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 10 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 10 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 10 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 13000 mg/kg
heptan-2-one CAS: 110-43-0	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 1516 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 54.27 mg/kg dry weight (d.w.)
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 394.25 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 23.32 mg/kg dry weight (d.w.)
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 84.31 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 23.32 mg/kg dry weight (d.w.)
xylene CAS: 1330-20-7	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 65.3 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 12.5 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 442 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 212 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 221 mg/m3

trizinc bis(orthophosphate) CAS: 7779-90-0	Exposure Route: Human Inhalation; Exposure Frequency: Local Effects Worker Professional: 5 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Local Effects Worker Professional: 83 ppm
	Exposure Route: Human Dermal; Exposure Frequency: Local Effects Consumer: 83 ppm
	Exposure Route: Human Inhalation; Exposure Frequency: Local Effects Consumer: 2.5 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Chronic Effects Consumer: 0.83 ppm
2-methoxy-1-methylethyl acetate CAS: 108-65-6	Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Consumer: 33 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 36 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 320 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 33 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 550 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 796 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 275 mg/m3
2-hydroxyethyl methacrylate CAS: 868-77-9	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 1.3 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 4.9 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 0.83 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 2.9 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.83 mg/kg
phosphoric acid CAS: 7664-38-2	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 10.7 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 4.57 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.1 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 1 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0.36 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 2 mg/m3
(2- methoxymethylethoxy) propanol CAS: 34590-94-8	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 37.2 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Data 04/09/2024	Production Name MACPORASE SUN VELLOW

Worker Professional: 308 mg/m3 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Cumene CAS: 98-82-8 Worker Professional: 100 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 250 mg/m3 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 16.6 mg/m3 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects 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: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber. Respiratory protection: Use adequate protective respiratory equipment. Thermal Hazards: ΝΑ 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: Yellow Odour: N.A. pH: Not Relevant Kinematic viscosity: > 20,5 mm2/sec (40 °C) Melting point/freezing point: N.A. Boiling point or initial boiling point and boiling range: N.A. Flash point: 23°C / 60°C Lower and upper explosion limit: N.A. Relative vapour density: N.A. Vapour pressure: N.A. Density and/or relative density: 1.62 g/cm3 Solubility in water: N.A. Solubility in oil: N.A. Partition coefficient n-octanol/water (log value): N.A. Auto-ignition temperature: N.A. Decomposition temperature: N.A. Flammability: The product is classified Flam. Lig. 3 H226 Kinematic viscosity m2/s (40°C) > 20,5 mm2/sec (40 °C) Viscosity: = 55.00 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

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

# 10.6. Hazardous decomposition products

None.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Toxicological Information of the Preparation** 

	a) acute toxicity	Not classified
		Based on available data, the classification criteria are not met
		ATEmix - Oral : 88397.8 mg/kg bw
		ATEmix - Dermal : 72863.1 mg/kg bw
		ATEmix - Inhalation (Vapours) : 407.229 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	The product is classified: STOT SE 3(H336)
	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
Toxicol	ogical information on main com	ponents of the mixture:

n-butyl acetate	a) acute toxicity	LD50 Oral Rat = 10760 mg/kg LC50 Inhalation > 20 mg/l 4h	OECD Test Guideline 423
		LD50 Skin Rabbit > 14112 mg/kg	OECD Test Guideline 402
heptan-2-one	a) acute toxicity	LD50 Oral Rat = 1600 mg/kg	
		LC50 Inhalation Vapour Rat > 16.7 mg/l 4h	
xylene	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg	
		LC50 Inhalation Rat = 6700 Ppm 4h	
		LD50 Skin Rabbit > 5000 mg/kg	
2-methoxy-1-methyleth acetate	yl a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LC0 Inhalation Rat > 2000 Ppm 3h	
		LD50 Skin Rabbit > 5000 mg/kg	
ethylbenzene	a) acute toxicity	LD50 Oral Rat = 3500 mg/kg	

		LD50 Skin Rabbit > 5000 mg/kg
phosphoric acid	a) acute toxicity	LD50 Oral Rat = 2600 mg/kg LD50 Skin Rabbit = 2740 mg/kg
(2- methoxymethylethoxy) propanol	a) acute toxicity	LD50 Oral Rat = 5350 mg/kg
		LD50 Skin Rabbit > 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:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201
		c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H
heptan-2-one	CAS: 110-43-0 - EINECS: 203- 767-1 - INDEX: 606-024-00-3	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 131 mg/L 96h
		a) Aquatic acute toxicity: ErC50 Algae Selenastrum capricornutum (green algae) = 98.2 mg/L 72h
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H
		e) Plant toxicity : EC0 Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H
		<ul> <li>b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout)</li> <li>&gt; 1.3 mg/L 56 D</li> </ul>
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = $4.36$ mg/L 72 H
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203- 603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) >

		500 mg/L 48 H
		e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H
		b) Aquatic chronic toxicity : NOEC Fish Oryzias latipes (Japanese medaka) = 47.5 mg/L 14 D
		b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D
		e) Plant toxicity : NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H
phosphoric acid	CAS: 7664-38-2 - EINECS: 231- 633-2 - INDEX: 015-011-00-6	a) Aquatic acute toxicity : LC50 Fish = 75.1 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates > 100 mg/L 48 H
		e) Plant toxicity : EC50 Algae > 100 mg/L 72 H
(2-methoxymethylethoxy)propanol	CAS: 34590-94- 8 - EINECS: 252-104-2	a) Aquatic acute toxicity: LC50 Fish > 10000 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia (water flea) > 85000 mg/L 48 H $$

#### 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. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

# **SECTION 14: Transport information**

# 14.1. UN number or ID number

1263

# 14.2. UN proper shipping name

ADR-Shipping Name: PAINT IATA-Technical name: PAINT IMDG-Technical name: PAINT

# 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

# 14.4. Packing group

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

#### 14.5. Environmental hazards

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 0.00 Marine pollutant: No Environmental Pollutant: No IMDG-EMS: F-E, <u>S-E</u>

#### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

#### Air (IATA):

IATA-Passenger Aircraft: 355 IATA-Cargo Aircraft: 366 IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

#### Sea (IMDG):

IMDG-Stowage Code: Category A IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

# 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: 3, 40

Restrictions related to the substances contained: 28, 30, 75

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

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

50000

**Regulatory Base** 

Factors

Administrative determined MAL-

# 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 3

# SVHC Substances:

No SVHC substances present in concentration  $\geq$ = 0.1%

# Dir. 2010/75/EC (VOC directive)

Volatile Organic compounds - VOCs = 26.12 % Volatile Organic compounds - VOCs = 423.14 g/L Estimated Total Content of Water 0.00 % Estimated Total Solid Content 73.88 %

# **Classification according to VbF**

Classification according to VbF Exempt

# Mal-Code (Denmark)

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number
2 - 6	754	m3 air/10 g	1993

### **Biocides**

REGULATION (EC) No 528/2012

# 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

Code	Description		
EUH066	Repeated exposure may cause skin dryness or cracking.		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H290	May be corrosive to metals.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airwa	ys.	
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage	<u>).</u>	
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H350	May cause cancer.		
H360D	May damage the unborn child.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Code	Hazard class and hazard category	Description	
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1	
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2	
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3	
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4	
3.1/4/Inhal	Inhal     Acute Tox. 4     Acute toxicity (inhalation), Category 4		
Data 04/00/			Dese a 1

3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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 2: Hazards identification
- 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