

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

# 1.1. Product identifier

Mixture identification:

Trade name: BSB MICA MUSK GREEN

Trade code: LN610177

#### 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

Liquid 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). UNITED STATES OF AMERICA: Emergency Contact: Lechler SPA -Tel. +39-031-586301 (8.00-18.00).

# **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.
- Skin Irrit. 2 Causes skin irritation.
- Eye Irrit. 2 Causes serious eye irritation.
- STOT SE 3 May cause drowsiness or dizziness.
- STOT RE 2 May cause damage to organs through prolonged or repeated exposure.
- DECL10 This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq$  10 µm.

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.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

### **Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.

### **Special Provisions:**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### Contains

n-butyl acetate

2-ethoxy-1-methylethyl acetate

2-methoxy-1-methylethyl acetate

propan-2-ol

## 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: BSB MICA MUSK GREEN

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

Qty	Name	Ident. Numb.	Classification	<b>Registration Number</b>
≥40 - ≤50 %	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
≥15 - ≤20 %	xylene	EC:215-535-7	H332; Acute Tox. 4, H312; Skin	01-2119488216-32
≥5 - ≤7 %	2-ethoxy-1-methylethyl acetate	CAS:54839-24-6 EC:259-370-9 Index:603-177- 00-8	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475116-39
≥3 - ≤5 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5 Index:022-006- 00-2	Not classified as hazardous	01-2119489379-17
≥2.5 - ≤3 %	mica	CAS:12001-26-2	Not classified as hazardous	

≥1 - ≤2.5 %	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	
≥1 - ≤2.5 %	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
≥1 - ≤2.5 %	propan-2-ol	CAS:67-63-0 EC:200-661-7 Index:603-117- 00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25
≥1 - ≤2.5 %	chromium (III) oxide	CAS:1308-38-9 EC:215-160-9	Substance with a Union workplace exposure limit.	01-2119433951-39
< 0.1 %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021- 00-3	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Repr. 2, H361d; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412	01-2119471310-51
< 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	

# **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.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, 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

Eye irritation

Eye damages

Skin Irritation

Erythema

# 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.

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 Type	Country	Occupational Exposure Limit
n-butyl acetate CAS: 123-86-4	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	
	EU		Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative 2019/1831/EU
	ACGIH		Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr
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
titanium dioxide CAS: 13463-67-7	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	ACGIH		Long Term: 0.2 mg/m3 Nanoscale particles; R ; A3 - LRT irr, pneumoconiosis
	ACGIH		Long Term: 2.5 mg/m3 Finescale particles; R ; A3 - LRT irr, pneumoconiosis
mica CAS: 12001-26-2	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected wh
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 0.8 mg/m3 For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected wh
	ACGIH		Long Term: 0.1 mg/m3 R - Pneumoconiosis
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
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
propan-2-ol CAS: 67-63-0	EH40	UNITED KINGDOM OF GREAT	Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm
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		BRITAIN AND NORTHERN IRELAND			
	ACGIH		Long Term: 200 ppm; Short Term: 400 ppm A4, BEI - Eye and URT irr, CNS impair		
chromium (III) oxide CAS: 1308-38-9	ACGIH		Long Term: 0.5 mg/m3 LEC-TD-95133		
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 0.5 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
	EU		Long Term: 2 mg/m3 Behaviour Indicative 2006/15/EC		
	EU		chromium		
toluene CAS: 108-88-3	EU		Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Behaviour Indicative 2006/15/EC		
	EU		Identifies the possibility of significant uptake through the skin		
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 191 mg/m3 - 50 ppm; Short Term: 384 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		
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	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 r	mg/L; Medium:	e; Sampling Period: End of turn Blood al Exposure Limits		
	Value: 1.5 g	g/l; Medium: U	/lhippuric acid; Sampling Period: End of turn rine ological Exposure Indices		
	Biological Indicator: xylene; Sampling Period: End of turn Value: 1.5 mg/L; Medium: Blood Remark: Slovakia. Biological Limit Values				
	Biological Indicator: sum of 2,3,4-methylhippuric acid; Sampling Period: End of turn Value: 2000 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values				
	Biological Indicator: methylhypuric acid; Sampling Period: End of turn Value: 3 g/l; Medium: Urine Remark: Romania. Biological limit values				
	Biological Indicator: methylhippuric acid (all isomers); Sampling Period: End of turn Value: 2 g/l; Medium: Urine Remark: Slovenia. BAT-values				
	Value: 1.5 r	mg/L; Medium:	e; Sampling Period: Immediately after exposure or after working hours Blood gical limit values		

		Biological Indicator: methylhippuric acid (all isomers); Sampling Period: Immediately after expo after working hours Value: 2 g/l; Medium: Urine Remark: TRGS 903 - Biological limit values	sure or
		Biological Indicator: Methylhippuric acid; Sampling Period: Last 4 hours of shift Value: 2 mg/L; Medium: Urine	
		Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices	
		Biological Indicator: total (o-, m-, p-)methylhippuric acid; Sampling Period: End of turn; End of week Value: 800 mg/L; Medium: Urine	working
		Remark: Occupational exposure limits based on biological monitoring (JSOH).	
		Biological Indicator: methyl hippuric acid; Sampling Period: At the end of a work week / at the e work day / at the end of a shift Value: 1.5 g/l; Medium: Urine	nd of a
		Remark: Austria. Regulation on health surveillance in the workplace 2014	
		Biological Indicator: xylene; Sampling Period: End of workday Value: 1 mg/L; Medium: Blood Remark: Austria. Regulation 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 E: Limits	cposure
		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 hours Value: 2 g/l; Medium: Urine Remark: Svizzera. Lista di valori BAT	working
,	enzene 100-41-4	Biological Indicator: mandelic acid; Sampling Period: after the last shift of the last day of the wo Value: 15 g/g creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices	rk week
		Biological Indicator: Ethylbenzene; Sampling Period: after the last shift of the last day of the wo Value: 15 g/g creatinine; Medium: Air at the end of exhalation Remark: Argentina. Biological Exposure Indices	rk week
		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 Chem	cal 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 tu Value: 15 g/g creatinine; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted B 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	
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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 **Biological Indicator: Acetone** Value: 2 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices Biological Indicator: Acetone; Sampling Period: End of turn; End of working week Value: 40 mg/L; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu Biological Indicator: Acetone; Sampling Period: End of turn Value: 50 mg/L; Medium: Blood Remark: Croatia. Biological Exposure Limits Biological Indicator: Acetone; Sampling Period: End of turn Value: 86 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits Biological Indicator: Acetone; Sampling Period: End of turn Value: 50 mg/L; Medium: Urine Remark: Croatia. Biological Exposure Limits Biological Indicator: Acetone; Sampling Period: End of turn Value: 86 micromol per litre; Medium: Urine Remark: Croatia. Biological Exposure Limits Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 25 mg/L; Medium: Blood Remark: TRGS 903 - Biological limit values Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 25 mg/L; Medium: Urine Remark: TRGS 903 - Biological limit values

propan-2-ol

CAS: 67-63-0

	Biological Indicator: Acetone; Sampling Period: End of turn; End of working week Value: 40 mg/L; Medium: Urine Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work
	Biological Indicator: Acetone; Sampling Period: End of turn; End of working week Value: 40 mg/L; Medium: Urine Remark: Portuguese Norm 1796 - Biological Exposure Indices
	Biological Indicator: Acetone; Sampling Period: End of turn Value: 50 mg/L; Medium: Urine Remark: Romania. Biological limit values
	Biological Indicator: Acetone; Sampling Period: End of turn Value: 25 mg/L; Medium: Blood Remark: Slovenia. BAT-values
	Biological Indicator: Acetone; Sampling Period: End of turn Value: 25 mg/L; Medium: Urine Remark: Slovenia. BAT-values
	Biological Indicator: Acetone; Sampling Period: FSL Value: 40 mg/L; Medium: Urine Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values
	Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 25 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 4 Millimoles per liter; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 25 mg/L; Medium: Blood Remark: Svizzera. Lista di valori BAT
	Biological Indicator: Acetone; Sampling Period: Immediately after exposure or after working hours Value: 4 Millimoles per liter; Medium: Blood Remark: Svizzera. Lista di valori BAT
	Biological Indicator: Acetone; Sampling Period: End of turn; End of working week Value: 40 mg/L; Medium: Urine Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)
	Biological Indicator: Acetone; Sampling Period: End of workday at end of workweek Value: 40 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits
toluene CAS: 108-88-3	Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 0.5 mg/L; Medium: Urine Remark: Argentina. Biological Exposure Indices
	Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 16 g/g creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices
	Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek Value: 0.05 mg/L; Medium: Blood Remark: Argentina. Biological Exposure Indices
	Biological Indicator: O-Cresol; Sampling Period: At the end of a work week / at the end of a work day / at the end of a shift Value: 0.8 mg/L; Medium: Urine Remark: Austria. Regulation on health surveillance in the workplace 2014
	Biological Indicator: Toluene; Sampling Period: End of workday Value: 250 µg/L; Medium: Blood Remark: Austria. Regulation on health surveillance in the workplace 2014
	Biological Indicator: Hippuric acid; Sampling Period: End of last day of the working day (recommended to avoid the first day of the week) Value: 25 g/g creatinine; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents
	Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 16 mmol/mmol creatinine; Medium: Urine Remark: Bulgaria. Biological limit values
	Biological Indicator: Toluene; Sampling Period: Before shift at end of workweek

Value: 0.05 mg/L; Medium: Blood Remark: Chile. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of workday Value: 30 µg/L; Medium: Urine Remark: Chile. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended) Value: 1 mol/mol creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended) Value: 15 g/g creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended) Value: 11 Millimoles per liter; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Hippuric acid; Sampling Period: End of workshift (after exposure has ended) Value: 2 g/l; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Toluene; Sampling Period: End of workshift (15-30 min after exposure has ended) Value: 20 mg/m<sup>3</sup>; Medium: Air at the end of exhalation Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: Toluene Value: 5 mg/m<sup>3</sup>; Medium: Air at the end of exhalation Remark: China. Biological Occupational Exposure Limits for 15 chemicals.

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 3 mg/g Creatinine; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu

Biological Indicator: Toluene; Sampling Period: End of turn Value: 0.03 mg/L; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek Value: 0.02 mg/L; Medium: Blood Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu

Biological Indicator: Toluene; Sampling Period: End of turn Value: 1085 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: End of turn Value: 1 mg/L; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: during exposure Value: 83 micromol per litre; Medium: Air at the end of exhalation Remark: Croatia. Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: during exposure Value: 20 ppm; Medium: Air at the end of exhalation Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 158 mol/mol creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 25 g/g creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 105 Millimoles per mole Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 1 mg/g Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1600 mg/g Creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1000 micromoles per millimole creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 15 mg/g Creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 16 micromoles per millimole creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Morning after working day Value: 500 mg/L; Medium: Blood Remark: Finland. Biological limit values

Biological Indicator: Toluene; Sampling Period: End of turn Value: 600 µg/L; Medium: Blood Remark: TRGS 903 - Biological limit values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 1.5 mg/L; Medium: Urine Remark: TRGS 903 - Biological limit values

Biological Indicator: O-Cresol; Sampling Period: After shift Value: 1 mg/g Creatinine; Medium: Urine Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: O-Cresol; Sampling Period: After shift Value: 105 micromoles per millimole creatinine; Medium: Urine Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: Hippuric acid Value: 16 g/g creatinine; Medium: Urine Remark: Israel. Safety at Work Regulations - Annex III Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Within 2 h prior to end of shift at end of work week Value: 0.6 mg/L; Medium: Blood Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Toluene; Sampling Period: Within 2 h prior to end of shift at end of work week Value: 0.06 mg/L; Medium: Urine Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 25 g/g creatinine; Medium: Urine Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Toluene; Sampling Period: End of turn Value: 1 mg/L; Medium: venous blood Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 1 mg/g Creatinine; Medium: Urine Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 16 g/g creatinine; Medium: Urine Remark: Latvia. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: End of turn Value: 0.05 mg/L; Medium: Blood Remark: Latvia. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 0.5 mg/L; Medium: Urine Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 16 g/g creatinine; Medium: Urine Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Toluene; Sampling Period: Before last turn of the working week

Value: 0.05 mg/L; Medium: Blood Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Toluene; Sampling Period: End of turn Value: 0.03 mg/L; Medium: Urine Remark: New Zealand. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 3 mg/g Creatinine; Medium: Urine Remark: New Zealand. Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: Before shift at end of workweek Value: 0.02 mg/L; Medium: Blood Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Toluene; Sampling Period: End of turn Value: 0.03 mg/L; Medium: Urine Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 3 mg/g Creatinine; Medium: Urine Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 2 g/l; Medium: Urine Remark: Romania. Biological limit values

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 3 mg/L; Medium: Urine Remark: Romania. Biological limit values

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek Value: 0.05 mg/L; Medium: Blood Remark: Singapore. Biological Threshold Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn Value: 600 µg/L; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn Value: 6517 micromol per litre; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 2401 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 13399 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1600 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 1010 micromoles per millimole creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 143 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 103 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 108 micromoles per millimole creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 1.5 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn Value: 600 micromol per litre; Medium: Blood Remark: Slovenia. BAT-values Biological Indicator: O-Cresol; Sampling Period: during long-term exposure: at the end of the work shift after several consecutive workdays Value: 1.5 mg/L; Medium: Urine Remark: Slovenia. BAT-values

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 25 g/g creatinine; Medium: Urine Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Toluene; Sampling Period: End of turn Value: 1 mg/L; Medium: venous blood Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 1 mg/g Creatinine; Medium: Urine Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Toluene; Sampling Period: End of workday Value: 0.08 mg/L; Medium: Urine Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: O-Cresol; Sampling Period: End of workday Value: 6 mg/g Creatinine; Medium: Urine Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Toluene; Sampling Period: prior to last shift of workweek Value: 0.05 mg/L; Medium: Blood Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one shift

Value: 2 g/g creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 0.5 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: toluol; Sampling Period: Immediately after exposure or after working hours Value: 648 micromol per litre; Medium: Blood Remark: Svizzera. Lista di valori BAT

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one shift

Value: 126 mmol/mmol creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 462 micromol per litre; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: toluol; Sampling Period: Immediately after exposure or after working hours Value: 600 µg/L; Medium: Blood Remark: Svizzera. Lista di valori BAT

Biological Indicator: Hippuric acid; Sampling Period: End of workday Value: 16 g/g creatinine; Medium: Urine Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: O-Cresol; Sampling Period: End of workday Value: 0.5 mg/L; Medium: Urine Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek Value: 0.02 mg/L; Medium: Blood Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Toluene; Sampling Period: End of turn Value: 0.03 mg/L; Medium: Urine Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 3 mg/g Creatinine; Medium: Urine Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: O-Cresol; Sampling Period: End of workday Value: 0.5 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits

Biological Indicator: Hippuric acid; Sampling Period: End of workday

	Value: 16 g/g creatinine; Medium: Urine Remark: VE.Biological Exposure Limits
	Biological Indicator: Toluene; Sampling Period: Prior to last workday of workweek Value: 0.05 mg/L; Medium: Blood Remark: VE.Biological Exposure Limits
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 Cor	centration (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
xylene CAS: 1330-20-7	Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.32 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.32 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg
	Exposure Route: 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
2-ethoxy-1-methylethyl acetate CAS: 54839-24-6	Exposure Route: Fresh Water; PNEC Limit: 2 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.2 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 8.2 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 0.67 mg/l
	Exposure Route: Marine water sediments, FNEC Limit: 0.07 mg/r Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62.5 mg/l
	Exposure Route: Oral; PNEC Limit: 117 mg/l
titanium dioxide	Exposure Route: Fresh Water; PNEC Limit: 1 mg/l
CAS: 13463-67-7	
	Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg
	Exposure Route: Marine water; PNEC Limit: 0.127 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg
<b>_</b>	Exposure Route: Soil; PNEC Limit: 100 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6	Exposure Route: Fresh Water; PNEC Limit: 0.635 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
propan-2-ol	Exposure Route: Fresh Water; PNEC Limit: 140.9 mg/l
CAS: 67-63-0	
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 140.9 mg/l
	Exposure Route: Marine water; PNEC Limit: 140.9 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 552 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 552 mg/kg
	Exposure Route: Soil; PNEC Limit: 28 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2251 mg/l
toluene	Exposure Route: Fresh Water; PNEC Limit: 0.68 mg/l
CAS: 108-88-3	
	Exposure Route: Marine water; PNEC Limit: 0.68 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 16.39 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 16.39 mg/kg
	Exposure Route: Soil; PNEC Limit: 2.89 mg/kg
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.68 mg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 13.61 mg/l
Cumene	Exposure Route: Fresh Water; PNEC Limit: 0.035 mg/l
CAS: 98-82-8	
	Exposure Route: Marine water; PNEC Limit: 0.004 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.012 mg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 200 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 3.22 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 0.322 mg/kg
	Exposure Route: Soil; PNEC Limit: 0.624 mg/kg
Derived No Effect Leve	
Derived No Effect Leve n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3 Exposure Route: 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 Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3
n-butyl acetate	I (DNEL) values Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3 Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3 Exposure Route: 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
n-butyl acetate	<ul> <li>I (DNEL) values</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 35.7 mg/m3</li> </ul>
n-butyl acetate	<ul> <li>I (DNEL) values</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> </ul>
n-butyl acetate	<ul> <li>I (DNEL) values</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 300 mg/m3</li> </ul>
n-butyl acetate	<ul> <li>I (DNEL) values</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 35.7 mg/m3</li> </ul>
n-butyl acetate	<ul> <li>I (DNEL) values</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 300 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3</li> <li>Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3</li> <li>Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 300 mg/m3</li> </ul>

	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.)
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
2-ethoxy-1-methylethyl acetate CAS: 54839-24-6	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Industry: 2366 mg/m3; Worker Professional: 2366 mg/kg; Consumer: 1420 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 152 mg/m3; Worker Professional: 152 mg/m3; Consumer: 181 mg/m3
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 103 mg/kg; Worker Professional: 103 mg/kg; Consumer: 62 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 13.1 mg/kg
titanium dioxide CAS: 13463-67-7	Exposure Route: Human Inhalation; Exposure Frequency: Local Effects Worker Professional: 10 mg/m3
	Exposure Route: Human Oral; Exposure Frequency: Specific Effects Consumer: 700 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
propan-2-ol CAS: 67-63-0	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 89 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 500 mg/m3
toluene CAS: 108-88-3	Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Consumer: 226 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 226 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 56.5 mg/m3	5			
Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 8.13 mg/kg				
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 226 mg/kg				
Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 384 mg/m3				
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effect Worker Professional: 384 mg/m3	S			
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 192 mg/m3				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 192 mg/m3	5			
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 384 mg/kg				
Cumene Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects CAS: 98-82-8 Worker Professional: 100 mg/m3	5			
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	5			
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:				
Use close fitting safety goggles, don't use eye lens.				
Protection for skin:				
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.				
Protection for hands: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.				
Respiratory protection:				
Use adequate protective respiratory equipment.				
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: Green 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: 0.99 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. Liq. 3 H226 Kinematic viscosity m2/s (40°C) > 20,5 mm2/sec (40 °C) Viscosity: = 70.00 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 - Dermal : 7310.06 mg/kg bw			
		ATEmix - Inhalation (Vapours) : 64.5401 mg/l			
b) skin corrosion/i	rritation	The product is classified: Skin Irrit. 2(H315)			
c) serious eye dan	nage/irritation	The product is classified: Eye Irrit. 2(H319)			
d) respiratory or s	kin sensitisation	Not classified			
		Based on available data, the classification criteria are not met			
e) germ cell muta	genicity	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 to	xicity	Not classified			
		Based on available data, the classification criteria are not met			
h) STOT-single ex	posure	The product is classified: STOT SE 3(H336)			
i) STOT-repeated	exposure	The product is classified: STOT RE 2(H373)			
j) aspiration hazar	rd	Not classified			
		Based on available data, the classification criteria are not met			
Toxicological information	n on main comp	oonents of the mixture:			
n-butyl acetate	a) acute toxicity	LD50 Oral Rat = 10760 mg/kg	OECD Test Guideline 423		
		LC50 Inhalation > 20 mg/l 4h			
		LD50 Skin Rabbit > 14112 mg/kg	OECD Test Guideline 402		
xylene	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg			
		LC50 Inhalation Rat = 6700 Ppm 4h			
		LD50 Skin Rabbit > 5000 mg/kg			

2-ethoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000	OECD Test Guideline 401
		LC50 Inhalation Mist Rat > $6.99  ext{ 4h}$	OECD Test Guideline 403
titanium dioxide	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LD50 Skin Rabbit > 5000 mg/kg	
ethylbenzene	a) acute toxicity	LD50 Oral Rat = 3500 mg/kg	
		LD50 Skin Rabbit > 5000 mg/kg	
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg	
		LC0 Inhalation Rat > 2000 Ppm 3h	
		LD50 Skin Rabbit > 5000 mg/kg	
propan-2-ol	a) acute toxicity	LD50 Oral Rat = 5840 mg/kg	
		LC50 Inhalation Rat > 10000 Ppm 6h	
toluene	a) acute toxicity	LD50 Oral Rat = 5000 mg/kg	
		LC50 Inhalation Rat = 25.7 mg/l 4h	
		LD50 Skin Rabbit = 12267 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
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### 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
	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
	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
				b) Aquatic chronic toxicity: NOEC Fish Oncorhynchus mykiss (rainbow trout)
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		> 1.3 mg/L 56 D
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = 4.36 mg/L 72 H
2-ethoxy-1-methylethyl acetate	CAS: 54839-24- 6 - EINECS: 259-370-9 - INDEX: 603- 177-00-8	
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 110 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Desmodesmus subspicatus (green algae) > 100 mg/L 72 H OECD Test Guideline 201
		c) Bacteria toxicity: EC10 Microorganisms Pseudomonas putida = 560 mg/L 16 H
		b) Aquatic chronic toxicity: NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D
		a) Aquatic acute toxicity : NOEC Fish Oryzias latipes (Orange-red killifish) = $47.5 \text{ mg/L}$ 96 H
		e) Plant toxicity: NOEC Algae Desmodesmus subspicatus (green algae) >= 100 mg/L 72 H
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h
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
propan-2-ol	CAS: 67-63-0 - EINECS: 200- 661-7 - INDEX: 603-117-00-0	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (fathead minnow) = 9640 mg/L 96 H
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) > 10000 mg/L 24 H
		e) Plant toxicity: EC50 Algae Scenedesmus quadricauda (Green algae) = 1800 mg/L 7 D
toluene	CAS: 108-88-3 - EINECS: 203- 625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus kisutch (coho salmon) = 5.5 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Ceriodaphnia dubia (water flea) = $3.78 \text{ mg/L} 48 \text{ H}$
		e) Plant toxicity : EC50 Algae algae = 134 mg/L 96 H b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus kisutch (coho salmon) = 1.39 mg/L 40 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. 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-Shipping Name: PAINT IMDG-Shipping 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 and handling: Category A IMDG-Segregation: -IMDG-Subsidiary hazards: -IMDG-Special Provisions: 163 223 367 955

### **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, 48, 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 Product belongs to category: P5c 5000 Regulation (EU) No 649/2012 (PIC regulation) No substances listed German Water Hazard Class. 2: Hazard to waters German Lagerklasse according to TRGS 510: LGK 3 **SVHC Substances:** No SVHC substances present in concentration >= 0.1% DIRECTIVE 2010/75/EU (VOC directive) Volatile Organic compounds - VOCs = 73.87 % Volatile Organic compounds - VOCs = 731.27 g/L Estimated Total Content of Water 0.00 % Estimated Total Solid Content 26.13 % **Classification according to VbF** Classification according to VbF A II - Flash point 21 °C to 55 °C, at 15 °C not miscible in water Mal-Code (Denmark) Mal-Code (Denmark) Mal Factor Unit of Measure Revision Status / Number **Regulatory Base** Administrative determined MAL-4 - 6 1 742 m3 air/10 g 1993 Factors

# 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.	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.			
H304	May be fatal if swallowed and enters airwa	iys.		
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H336	May cause drowsiness or dizziness.			
H350	May cause cancer.			
H361d	Suspected of damaging the unborn child.			
H373	May cause damage to organs through prolonged or repeated exposure.			
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		
<b>Code</b> 2.6/2				
	Hazard class and hazard category	Description		
2.6/2	Hazard class and hazard category Flam. Liq. 2	<b>Description</b> Flammable liquid, Category 2		
2.6/2 2.6/3	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3	<b>Description</b> Flammable liquid, Category 2 Flammable liquid, Category 3		
2.6/2 2.6/3 3.1/4/Dermal	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4	<b>Description</b> Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4	<b>Description</b> Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1	<b>Description</b> Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2 3.3/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Irrit. 2	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Eye irritation, Category 2		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2 3.3/2 3.6/1B	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Irrit. 2 Carc. 1B	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Eye irritation, Category 2B		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2 3.3/2 3.6/1B 3.7/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Irrit. 2 Carc. 1B Repr. 2	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Eye irritation, Category 2 Carcinogenicity, Category 1B Reproductive toxicity, Category 2		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2 3.3/2 3.6/1B 3.7/2 3.8/3	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Irrit. 2 Carc. 1B Repr. 2 STOT SE 3	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Eye irritation, Category 1B Reproductive toxicity, Category 2 Specific target organ toxicity — single exposure, Category 3		
2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.10/1 3.2/2 3.3/2 3.6/1B 3.7/2 3.8/3 3.9/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Irrit. 2 Carc. 1B Repr. 2 STOT SE 3 STOT RE 2	<ul> <li>Description</li> <li>Flammable liquid, Category 2</li> <li>Flammable liquid, Category 3</li> <li>Acute toxicity (dermal), Category 4</li> <li>Acute toxicity (inhalation), Category 4</li> <li>Aspiration hazard, Category 1</li> <li>Skin irritation, Category 2</li> <li>Eye irritation, Category 1B</li> <li>Reproductive toxicity, Category 2</li> <li>Specific target organ toxicity — single exposure, Category 3</li> <li>Specific target organ toxicity — repeated exposure, Category 2</li> </ul>		

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

(EC) Nr. 1272/2008	classification proce
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	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