# **Safety Data Sheet BSB EMERALD GREEN**

Safety Data Sheet dated 23/02/2024 version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: BSB EMERALD GREEN

Trade code: LN610072

#### 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 Dam. 1 Causes serious eye damage.

STOT SE 3 May cause drowsiness or dizziness.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure.

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



Danger

#### **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

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#### **Precautionary statements**

P210	Keep away from	heat, hot surfaces,	sparks, open fla	ames and other	ignition sources.	No smoking.
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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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:**

EUH208 Contains 2,3-epoxypropyl neodecanoate. May produce an allergic reaction.

EUH208 Contains Hexane, 1,6-diisocyanato-, homopolymer. May produce an allergic reaction.

EUH204 Contains isocyanates. May produce an allergic reaction.

#### **Contains**

n-butyl acetate

2-methoxy-1-methylethyl acetate

2-ethoxy-1-methylethyl acetate

butan-1-ol

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

None.

#### 2.3. Other hazards

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

Other Hazards: No other hazards

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: BSB EMERALD GREEN

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - ≤30 %	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
≥12.5 - ≤15 %	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
≥10 - ≤12.5 %	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
≥7 - ≤10 %	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
≥5 - ≤7 %	butan-1-ol	CAS:71-36-3 EC:200-751-6 Index:603-004- 00-6	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Flam. Liq. 3, H226; STOT SE 3, H335; STOT SE 3, H336	01-2119484630-38

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≥1 - ≤2.5 %	1-methoxy-2-propanol	CAS:107-98-2 EC:203-539-1 Index:603-064- 00-3	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35
≥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
≥0.5 - ≤1 %	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	
≥0.5 - ≤1 %	silicon dioxide	CAS:7631-86-9 EC:231-545-4	Substance with a Union workplace exposure limit.	01-2119379499-16
≥0.3 - ≤0.5 %	4-hydroxy-4-methylpentan-2-one	CAS:123-42-2 EC:204-626-7 Index:603-016- 00-1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335	01-2119473975-21
		00 1	Specific Concentration Limits: C ≥ 10%: Eye Irrit. 2 H319	
≥0.3 - ≤0.5 %	C.I. Pigment Blue 15	CAS:147-14-8 EC:205-685-1	Not classified as hazardous	01-2119458771-32
≥0.1 - ≤0.25 %	2,3-epoxypropyl neodecanoate	CAS:26761-45-5 EC:247-979-2	Skin Sens. 1, H317; Muta. 2, H341; Aquatic Chronic 2, H411	01-2119431597-33-0000
≥0.1 - ≤0.25 %	Hexane, 1,6-diisocyanato-, homopolymer	CAS:28182-81-2	Acute Tox. 4, H332; STOT SE 3, H335; Skin Sens. 1, H317	
< 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

#### Substances in nanoform:

C.I. Pigment Blue 15 CAS:147-14-8 Particle size distribution: D10: >= 10 nm <= 50 nm EC:205-685-1 D50: >= 10 nm <= 100 nm

D50: >= 10 nm <= 100 nm D90: >= 20 nm <= 150 nm (Measurement technique: TEM)

Shape and aspect ratio: Orthorhombic, 1 to 3

(Measurement technique: TEM)

Crystallinity: Crystalline: = 100% -

(Measurement technique: X-ray

Diffraction (XRD))

Surface Treatment - Agent: No specific treatment

Specific surface area: >= 30m2/m3 <= 94m2/m3 -

(Measurement technique: Brunaurer, Emmett and Teller (BET) method using Nitrogen)

## **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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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.

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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

Ervthema

#### 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 unquarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

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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
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
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
butan-1-ol CAS: 71-36-3	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Short Term: 154 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: 20 ppm Eye and URT irr
1-methoxy-2-propanol CAS: 107-98-2	EU		Long Term: 375 mg/m3 - 100 ppm; Short Term: 568 mg/m3 - 150 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN	Long Term: 375 mg/m3 - 100 ppm; Short Term: 560 mg/m3 - 150 ppm  Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
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**IRELAND** 

**ACGIH** Long Term: 50 ppm; Short Term: 100 ppm

A4 - Eye and URT irr

Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm propan-2-ol **EH40** UNITED

CAS: 67-63-0 KINGDOM OF **GREAT BRITAIN AND NORTHERN** 

**IRELAND** 

**ACGIH** Long Term: 200 ppm; Short Term: 400 ppm

A4, BEI - Eye and URT irr, CNS impair

ethylbenzene EU Long Term: 442 mg/m3 - 100 ppm; Short Term: 884 mg/m3 - 200 ppm CAS: 100-41-4

Behaviour Indicative

2000/39/EC

ΕU Identifies the possibility of significant uptake through the skin

EH40 Long Term: 441 mg/m3 - 100 ppm; Short Term: 552 mg/m3 - 125 ppm UNITED

KINGDOM OF Can be absorbed through the skin. The assigned substances are those for which there

GREAT are concerns that dermal absorption will lead to

**BRITAIN AND** NORTHERN **IRELAND** 

**ACGIH** Long Term: 20 ppm

OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair

silicon dioxide Long Term: 0.1 mg/m3 EU CAS: 7631-86-9

2004/37/EC

FU Carcinogens or mutagens

EU Respirable dust FH40 UNITED Long Term: 6 mg/m3

KINGDOM OF The COSHH definition of a substance hazardous to health includes dust of any kind

GREAT when present at a concentration in air equal to or

**BRITAIN AND NORTHERN IRELAND** 

FH40 UNITED Long Term: 2.4 mg/m3

KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term

Long Term: 241 mg/m3 - 50 ppm; Short Term: 362 mg/m3 - 75 ppm

**GREAT** exposure limit should be used.

**BRITAIN AND NORTHERN IRELAND** 

4-hydroxy-4-methylpentan- EH40

2-one

CAS: 123-42-2

UNITED KINGDOM OF

GREAT **BRITAIN AND NORTHERN** 

**IRELAND** 

**ACGIH** Long Term: 50 ppm

URT and eye irr

C.I. Pigment Blue 15

CAS: 147-14-8

**EH40** UNITED KINGDOM OF Long Term: 1 mg/m3; Short Term: 2 mg/m3

**GREAT BRITAIN AND** NORTHERN **IRELAND** 

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

FU Identifies the possibility of significant uptake through the skin

EH40 Long Term: 191 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm UNITED

KINGDOM OF Can be absorbed through the skin. The assigned substances are those for which there

**GREAT** are concerns that dermal absorption will lead to **BRITAIN AND** 

**NORTHERN IRELAND** 

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# **Biological limit values**

CAS: 1330-20-7

xylene

Biological Indicator: xylene; Sampling Period: End of turn

Value: 1.5 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Methylhippuric acid; Sampling Period: End of turn

Value: 1.5 g/l; Medium: Urine

Remark: New Zealand. Biological 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 a/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

Biological Indicator: xylene; Sampling Period: Immediately after exposure or after working hours

Value: 1.5 mg/L; Medium: Blood

Remark: TRGS 903 - Biological limit values

Biological Indicator: methylhippuric acid (all isomers); Sampling Period: Immediately after exposure or

after working hours

Value: 2 g/l; Medium: Urine

Remark: TRGS 903 - Biological limit values

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 working

week

Value: 800 mg/L; Medium: Urine

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 end of a

work day / at the end of a shift Value: 1.5 g/l; Medium: Urine

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 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

butan-1-ol Biological Indicator: 1-butanol; Sampling Period: Before next shift CAS: 71-36-3 Value: 2 mg/g Creatinine; Medium: Urine

Value: 2 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values

Biological Indicator: 1-butanol; Sampling Period: Immediately after exposure or after working hours

Value: 10 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values

Biological Indicator: n-butyl alcohol; Sampling Period: Beginning of next shift

Value: 2 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

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Biological Indicator: n-butyl alcohol; Sampling Period: Beginning of next shift

Value: 313 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: n-butyl alcohol; Sampling Period: End of turn

Value: 10 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: n-butyl alcohol; Sampling Period: End of turn Value: 1534 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: 1-butanol

Value: 2 mg/g Creatinine; Medium: Urine

Remark: Slovenia. BAT-values

Biological Indicator: 1-butanol; Sampling Period: End of turn

Value: 10 mg/g Creatinine; Medium: Urine

Remark: Slovenia. BAT-values

Biological Indicator: n-butanol; Sampling Period: Immediately after exposure or after working hours

Value: 10 mg/g Creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: n-butanol; Sampling Period: Before next shift or 16 hours after last shift

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

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

Biological Indicator: 1-Methoxypropan-2-ol; Sampling Period: Immediately after exposure or after working

ours

Value: 15 mg/L; Medium: Urine

Remark: TRGS 903 - Biological limit values

Biological Indicator: 1-methoyxypropane-2-ol; Sampling Period: End of turn

Value: 15 mg/L; Medium: Urine Remark: Slovenia. BAT-values

Biological Indicator: 1-methoxypropanol-2; Sampling Period: Immediately after exposure or after working

hours

Value: 2219 micromol per litre; Medium: Urine

Remark: Svizzera. Lista di valori BAT

Biological Indicator: 1-methoxypropanol-2; Sampling Period: Immediately after exposure or after working

hours

Value: 20 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

propan-2-ol CAS: 67-63-0 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

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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

ethylbenzene 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

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

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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

 ${\bf Biological\ Indicator:\ Sum\ of\ mandelic\ acid\ and\ phenyl\ glyoxylic\ acid;\ Sampling\ Period:\ End\ of\ turn}$ 

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

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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

2,3-epoxypropyl neodecanoate CAS: 26761-45-5

Biological Indicator: spirometry

Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

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

 ${\bf Biological\ Indicator:\ Toluene;\ Sampling\ Period:\ Prior\ to\ last\ shift\ of\ workweek}$ 

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

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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/m³; 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

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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

imits

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

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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: Ürine 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

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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)

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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

#### Predicted No Effect Concentration (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

2-methoxy-1-methylethyl Exposure Route: Fresh Water; PNEC Limit: 0.635 mg/kg

acetate

CAS: 108-65-6

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

xylene

CAS: 1330-20-7

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.32 mg/l

Exposure Route: Marine water; PNEC Limit: 0.32 mg/l

Exposure Route: Fresh 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: Microorganisms in sewage treatments; PNEC Limit: 62.5 mg/l

Exposure Route: Oral; PNEC Limit: 117 mg/l

butan-1-ol CAS: 71-36-3 Exposure Route: Fresh Water; PNEC Limit: 0.08 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit:  $2.25\ mg/l$ 

Exposure Route: Marine water; PNEC Limit: 0.008 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.0324 mg/kg

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Exposure Route: Marine water sediments; PNEC Limit: 0.032 mg/kg

Exposure Route: Soil; PNEC Limit: 0.01 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2476 mg/l

propan-2-ol CAS: 67-63-0

Exposure Route: Fresh Water; PNEC Limit: 140.9 mg/l

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

4-hydroxy-4methylpentan-2-one CAS: 123-42-2 Exposure Route: Fresh Water; PNEC Limit: 2 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit:  $1\ mg/l$ 

Exposure Route: Marine water; PNEC Limit: 0.2 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 9.06 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.91 mg/kg

Exposure Route: Soil; PNEC Limit: 0.63 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 82 mg/l

2,3-epoxypropyl neodecanoate CAS: 26761-45-5

Exposure Route: Fresh Water; PNEC Limit: 0.001 mg/l

Exposure Route: Marine water; PNEC Limit: 0.00012 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 50 mg/l Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.012 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.012 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.002 mg/kg

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

#### **Derived No Effect Level (DNEL) values**

n-butyl acetate CAS: 123-86-4

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

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

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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.)

acetate

2-methoxy-1-methylethyl Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

Consumer: 33 mg/m3

CAS: 108-65-6

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

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

butan-1-ol CAS: 71-36-3 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 55 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 3125 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 310 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

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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

4-hydroxy-4methylpentan-2-one CAS: 123-42-2 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Consumer: 3.4 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 11.8 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 3.4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 9.4 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 66.4 mg/m3

2,3-epoxypropyl neodecanoate CAS: 26761-45-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 1.9 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 2.7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 1.6 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 1.1 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Professional: 10 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Consumer: 1.15 mg/kg

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

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 effects

Worker Professional: 384 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 192 mg/m3

 ${\bf Exposure} \ {\bf Route:} \ {\bf Human} \ {\bf Inhalation;} \ {\bf Exposure} \ {\bf Frequency:} \ {\bf Long} \ {\bf Term,} \ {\bf systemic} \ {\bf effects}$ 

Worker Professional: 192 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 384 mg/kg

#### 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.

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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: 24.5 °C (76.1 °F) Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 0.98 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 ( $40^{\circ}$ C) > 20,5 mm2/sec ( $40^{\circ}$ C)

Viscosity: = 70.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

**Particle characteristics:** 

Particle size: N.A.

Nanoforms: See Nanoform information in Section 3.

# 9.2. Other information

Evaporation rate: N.A. Miscibility: N.A. Conductivity: N.A.

No other relevant information

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Data not available.

# 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

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: 14625.6 mg/kg bw

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ATEmix - Dermal: 10875.3 mg/kg bw

ATEmix - Inhalation (Vapours): 108.753 mg/l The product is classified: Skin Irrit. 2(H315)

The product is classified: Eye Dam. 1(H318)

d) respiratory or skin sensitisation Not classified

b) skin corrosion/irritation

c) serious eye damage/irritation

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 The product is classified: STOT RE 2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

#### Toxicological information on main components 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

2-methoxy-1-methylethyl a) acute toxicity

acetate

LD50 Oral Rat > 5000 mg/kg

LC0 Inhalation Rat > 2000 Ppm 3h LD50 Skin Rabbit > 5000 mg/kg

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

LD50 Oral Rat > 5000

OECD Test Guideline 401

OECD Test Guideline 403

**OECD Test Guideline 403** 

LC50 Inhalation Mist Rat > 6.99 4h

butan-1-ol a) acute toxicity LD50 Oral Rat = 790 mg/kg

a) acute toxicity

LC50 Inhalation Rat > 18 mg/l 4h LD50 Skin Rabbit = 3400 mg/kg

1-methoxy-2-propanol a) acute toxicity LD50 Oral Rat = 4016 mg/kg

LC0 Inhalation Rat > 7000 Ppm 6h

LD50 Skin Rat > 2000 mg/kg

propan-2-ol a) acute toxicity LD50 Oral Rat = 5840 mg/kg

LC50 Inhalation Rat > 10000 Ppm 6h

ethylbenzene a) acute toxicity LD50 Oral Rat = 3500 mg/kg

LD50 Skin Rabbit > 5000 mg/kg

silicon dioxide a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LC0 Inhalation Rat = 0.139 mg/l 4h - The product does not contain any substance classified for this

hazard

LD50 Skin Rabbit > 5000 mg/kg

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4-hydroxy-4a) acute toxicity LD50 Oral Rat = 3002 mg/kg methylpentan-2-one LC0 Inhalation Rat >= 7.6 mg/l 4h LD50 Skin Rat > 1875 mg/kg Hexane, 1,6a) acute toxicity LD50 Oral Rat > 5000 mg/kg diisocyanato-, homopolymer LD50 Skin Rabbit > 2000 mg/kg LC50 Inhalation Rat = 0.554 mg/l 4h mist/dust toluene a) acute toxicity LD50 Oral Rat = 5000 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.

LC50 Inhalation Rat = 25.7 mg/l 4h LD50 Skin Rabbit = 12267 mg/kg

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

xylene

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 $$		
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203- 603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 mg/L 96 H		
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 500 mg/L 48 H $$		
		e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H		
		b) Aquatic chronic toxicity : NOEC Fish Oryzias latipes (Japanese medaka) = $47.5 \text{ mg/L} \ 14 \text{ D}$		
		b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) $>= 100 \text{ mg/L } 21 \text{ D}$		

535-7 - INDEX:

1000 mg/L 96 H

- EINECS: 215- 2.6 mg/L 96 H

e) Plant toxicity: NOEC Algae Selenastrum capricornutum (green algae) >=

CAS: 1330-20-7 a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) =

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		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H $$
		e) Plant toxicity : ECO Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H
		b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1.3 mg/L 56 D
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = $4.36$ mg/L $72~\mathrm{H}$
2-ethoxy-1-methylethyl acetate	CAS: 54839-24- 6 - EINECS: 259-370-9 - INDEX: 603- 177-00-8	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 140 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = $110 \text{ mg/L} 48 \text{ H OECD Test Guideline } 202$
		e) Plant toxicity : EC50 Algae Desmodesmus subspicatus (green algae) > 100 mg/L 72 H OECD Test Guideline 201 $$
		c) Bacteria toxicity : EC10 Microorganisms Pseudomonas putida = $560 \text{ mg/L}$ $16 \text{ H}$
		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) = $47.5 \text{ mg/L} 96 \text{ H}$
		e) Plant toxicity : NOEC Algae Desmodesmus subspicatus (green algae) >= 100 mg/L 72 H $$
1-methoxy-2-propanol	CAS: 107-98-2 - EINECS: 203- 539-1 - INDEX: 603-064-00-3	a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) 25900 mg/L 48 H
		e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 7 D
propan-2-ol	CAS: 67-63-0 - EINECS: 200- 661-7 - INDEX: 603-117-00-0	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 9640 mg/L 96 H $$
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 10000 mg/L 24 H $$
		e) Plant toxicity : EC50 Algae Scenedesmus quadricauda (Green algae) = 1800 mg/L 7 D
4-hydroxy-4-methylpentan-2-one	CAS: 123-42-2 - EINECS: 204- 626-7 - INDEX: 603-016-00-1	a) Aquatic acute toxicity: LC50 Fish Oryzias latipes (Orange-red killifish) > 100 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 1000 mg/L 48 H $$
		e) Plant toxicity : EC50 Algae Pseudokirchneriella subcapitata (green algae) < 1000 mg/L 72 H $$
Hexane, 1,6-diisocyanato-, homopolymer	CAS: 28182-81- 2	a) Aquatic acute toxicity: LC50 Fish Danio rerio (zebra fish) > 100 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna (Water flea) > 100 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae scenedesmus subspicatus > 100 mg/L 72h
toluene	CAS: 108-88-3 - EINECS: 203- 625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus kisutch (coho salmon) = $5.5 \text{ mg/L } 96 \text{ H}$

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- a) Aquatic acute toxicity: EC50 Invertebrates Ceriodaphnia dubia (water flea) = 3.78 mg/L 48 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

NΑ

#### **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: -

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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

# 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: 48, 70, 74, 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

Product belongs to category: P5c 5000 50000

#### 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 = 69.76 %

Volatile Organic compounds - VOCs = 683.68 g/L

Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 30.24 %

#### Classification according to VbF

Classification according to VbF Exempt

# Mal-Code (Denmark)

Mal-Code (Denmark) Mal Factor Unit of Measure Revision Status / Number Regulatory Base

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4 - 6 1.784 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.				
H302	Harmful if swallowed.				
H304	May be fatal if swallowed and enters airwa	ys.			
H312	Harmful in contact with skin.				
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.				
H341	Suspected of causing genetic defects.				
H361	Suspected of damaging fertility or the unborn child.				
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.				
	Harmful to aquatic life with long lasting effects.				
H412	Harmful to aquatic life with long lasting eff	ects.			
H412 Code	Harmful to aquatic life with long lasting eff  Hazard class and hazard category	Description			
Code	Hazard class and hazard category	Description			
<b>Code</b> 2.6/2	Hazard class and hazard category Flam. Liq. 2	<b>Description</b> Flammable liquid, Category 2			
<b>Code</b> 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			
<b>Code</b> 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			
<b>Code</b> 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	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4			
Code 2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.1/4/Oral	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4			
Code 2.6/2 2.6/3 3.1/4/Dermal 3.1/4/Inhal 3.1/4/Oral 3.10/1	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1	Description Flammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2  3.4.2/1	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 Skin Sens. 1	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2 Skin Sensitisation, Category 1			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2  3.4.2/1  3.5/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 Skin Sens. 1 Muta. 2	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2 Skin Sensitisation, Category 1 Germ cell mutagenicity, Category 2			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2  3.4.2/1  3.5/2  3.7/2	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 Skin Sens. 1 Muta. 2 Repr. 2	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2 Skin Sensitisation, Category 1 Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 2			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2  3.4.2/1  3.5/2  3.7/2  3.8/3	Hazard class and hazard category Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Acute Tox. 4 Acute Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 Skin Sens. 1 Muta. 2 Repr. 2 STOT SE 3	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2 Skin Sensitisation, Category 1 Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity — single exposure, Category 3			
Code  2.6/2  2.6/3  3.1/4/Dermal  3.1/4/Inhal  3.1/4/Oral  3.10/1  3.2/2  3.3/1  3.3/2  3.4.2/1  3.5/2  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 Acute Tox. 1 Skin Irrit. 2 Eye Dam. 1 Eye Irrit. 2 Skin Sens. 1 Muta. 2 Repr. 2 STOT SE 3 STOT RE 2	Plammable liquid, Category 2 Flammable liquid, Category 3 Acute toxicity (dermal), Category 4 Acute toxicity (inhalation), Category 4 Acute toxicity (oral), Category 4 Aspiration hazard, Category 1 Skin irritation, Category 2 Serious eye damage, Category 1 Eye irritation, Category 2 Skin Sensitisation, Category 1 Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity — single exposure, Category 3 Specific target organ toxicity — repeated exposure, Category 2			

# 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
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

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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

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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

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