Safety Data Sheet ACRIPUR PRIMER GRIGIO

Safety Data Sheet dated 20/12/2022 version 4



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

1.1. Product identifier

Mixture identification:

Trade name: ACRIPUR PRIMER GRIGIO

Trade code: L0040561

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

Recommended use: Coatings and paints, thinners, paint removers

Dual compound primer (undercoat)
Liquid pigmented dispersion
Industrial uses; 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.

Skin Sens. 1 May cause an allergic skin reaction. STOT SE 3 May cause drowsiness or dizziness.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Warning

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

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.

P391 Collect spillage.

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

2-methoxy-1-methylethyl acetate

reaction product: bisphenol-A-

(epichlorhydrin); epoxy resin (number average molecular weight 700-1100)

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: ACRIPUR PRIMER GRIGIO

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥20 - ≤25 %	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
≥12.5 - ≤15 %	barium sulfate	CAS:7727-43-7 EC:231-784-4		01-2119491274-35
≥12.5 - ≤15 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5 Index:022-006- 00-2		01-2119489379-17
≥10 - ≤12.5 %	kaolin	CAS:1332-58-7 EC:310-194-1	Substance with a Union workplace exposure limit.	
≥5 - ≤7 %	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700-1100)	CAS:25036-25- 3, 25068-38-6 t	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
≥5 - ≤7 %	trizinc bis(orthophosphate)	CAS:7779-90-0 EC:231-944-3 Index:030-011- 00-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119485044-40
≥5 - ≤7 %	Talc (Mg3H2(SiO3)4)	CAS:14807-96-6 EC:238-877-9	Substance with a Union workplace exposure limit.	

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≥5 - ≤7 %	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
≥1 - ≤2.5 %	aluminium orthophosphate	CAS:7784-30-7 EC:232-056-9		01-2119971255-34-0006
≥0.5 - ≤1 %	zinc oxide	CAS:1314-13-2 EC:215-222-5 Index:030-013- 00-7	Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1	01-2119463881-32
≥0.1 - ≤0.25 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025- 00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29
≥0.1 - ≤0.25 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023- 00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373	
< 0,1 %	Carbon black	CAS:1333-86-4 EC:215-609-9		01-2119384822-32
< 0,1 %	Respirable crystalline silica	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
< 0,1 %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021- 00-3	Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT RE 2, H373; Asp. Tox. 1, H304; Repr. 2, H361; STOT SE 3, H336	01-2119471310-51
< 0,1 %	n-butyl acrylate	CAS:141-32-2 EC:205-480-7 Index:607-062- 00-3	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412; STOT SE 3, H335	01-2119453155-43

Substances in nanoform:

Carbon black CAS:1333-86-4 Particle size distribution: D10: >= 18 nm <= 61 nm

EC:215-609-9

D50: >= 36 nm <= 101 nm D90: >= 66 nm <= 173 nm (Measurement technique: STEM)

Shape and aspect ratio: Spheres, (:1): < 3 (Measurement

technique: TEM)

Crystallinity: Amorphous: = 100% -

(Measurement technique: X-ray

Diffraction (XRD))

Surface Treatment - Agent: (No)

Specific surface area: >= 21m2/g <= 1,200m2/g -

(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.

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

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

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.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 $^{\circ}$ 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)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)			
	OEL Type	Country	Occupational Exposure Limit
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
barium sulfate CAS: 7727-43-7	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10mg/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: 5 mg/m3 I, E - Pneumoconiosis
titanium dioxide CAS: 13463-67-7	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10mg/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
kaolin CAS: 1332-58-7	ACGIH		Long Term: 2 mg/m3 E,R, A4 - Pneumoconiosis
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 2 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: 0,1 mg/m3 2004/37/EC
	EU		Carcinogens or mutagens
	EU		Respirable dust
Talc (Mg3H2(SiO3)4) CAS: 14807-96-6	ACGIH		Long Term: 2 mg/m3 Containing no asbestos fibers\$ E,R, A4 - Pulm fibrosis, pulm func

Date 03/04/2025 Production Name ACRIPUR PRIMER GRIGIO Page n. 5 of 25 **EH40** UNITED Long Term: 1 mg/m3

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

GREAT exposure limit should be used.

BRITAIN AND NORTHERN IRELAND

ΕU Long Term: 0,1 mg/m3

2004/37/EC

FU Carcinogens or mutagens

Respirable dust ΕU **ACGIH** Long Term: 20 ppm

A4, BEI - URT and eye irr; hematologic eff; CNS impair

FH40 UNITED Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm

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**

EU Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm

Behaviour Indicative

2000/39/EC

ΕU Identifies the possibility of significant uptake through the skin

aluminium orthophosphate

xvlene

CAS: 1330-20-7

CAS: 7784-30-7

ACGIH Long Term: 1 mg/m3

LEC-TD-66807

zinc oxide **ACGIH** Long Term: 2 mg/m3; Short Term: 10 mg/m3 CAS: 1314-13-2

R - Metal fume fever

n-butyl acetate **EH40** UNITED Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm

CAS: 123-86-4 KINGDOM OF **GREAT BRITAIN AND NORTHERN IRELAND**

> ΕU Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm

Behaviour Indicative 2019/1831/EU

Long Term: 50 ppm; Short Term: 150 ppm **ACGIH**

Eye and URT irr

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

FU Identifies the possibility of significant uptake through the skin

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

KINGDOM OF Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to

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

ACGIH Long Term: 20 ppm

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

Carbon black

EH40 CAS: 1333-86-4

EH40

UNITED Long Term: 3,5 mg/m3; Short Term: 7 mg/m3 KINGDOM OF

GREAT BRITAIN AND NORTHERN IRELAND

ACGIH Long Term: 3 mg/m3

I, A3 - Bronchitis

Respirable crystalline silica

CAS: 14808-60-7

UNITED Long Term: 0,1 mg/m3

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

GREAT exposure limit should be used.

BRITAIN AND NORTHERN IRELAND

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EU Long Term: 0,1 mg/m3

Carcinogens or mutagens

ACGIH Long Term: 0,025 mg/m3

R, A2 - Pulm fibrosis, lung cancer

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

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

n-butyl acrylate CAS: 141-32-2

EU

Long Term: 11 mg/m3 - 2 ppm; Short Term: 53 mg/m3 - 10 ppm

Behaviour Indicative

2000/39/EC

EH40 UNITED

Long Term: 5 mg/m3 - 1 ppm; Short Term: 26 mg/m3 - 5 ppm

KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

ACGIH

Long Term: 2 ppm DSEN, A4 - Irr

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 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

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

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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

ethylbenzene CAS: 100-41-4 Biological Indicator: mandelic acid; Sampling Period: after the last shift of the last day of the work week

Value: 15 g/g creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices

Biological Indicator: Ethylbenzene; Sampling Period: after the last shift of the last day of the work week

Value: 15 g/g creatinine; Medium: Air at the end of exhalation

Remark: Argentina. Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week

Value: 15 g/g creatinine; Medium: Urine

Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents

Biological Indicator: total mandelic acid plus phenylglyoxylic acid; Sampling Period: End of turn

Value: 2000 mg/g Creatinine; Medium: Urine Remark: Bulgaria. Biological limit values

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

Value: 1500 mg/g Creatinine; Medium: Urine

Remark: Chile. Biological Limit Values

Biological Indicator: Sum of mandelic acid and phenyl glyoxylic acid; Sampling Period: End of turn

Value: 15 g/g creatinine; Medium: Urine

Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological

Exposu

Biological Indicator: Ethylbenzene; Sampling Period: during exposure

Value: 141 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Ethylbenzene; Sampling Period: during exposure

Value: 1.5 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week

Value: 112 mol/mol creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn; End of working week

Value: 15 g/g creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

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

Value: 1500 mg/g Creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 1100 micromoles per millimole creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: After the work shift at the end of week or exposure

period

Value: 5.2 Millimoles per liter; Medium: Urine Remark: Finland. Biological limit values

Biological Indicator: mandelic acid + phenylqlyoxylic acid; Sampling Period: Immediately after exposure or

after working hours

Value: 250 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values

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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

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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: O-Cresol; Sampling Period: End of turn toluene CAS: 108-88-3

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.

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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/m³; 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

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

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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

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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

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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

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

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: Uruquay. 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

Predicted No Effect Concentration (PNEC) values

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

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Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

barium sulfate CAS: 7727-43-7 Exposure Route: Fresh Water; PNEC Limit: 0,115 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 600,4 mg/kg

Exposure Route: Soil; PNEC Limit: 207,7 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 62,6 mg/l

titanium dioxide CAS: 13463-67-7 Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

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

Exposure Route: Soil; PNEC Limit: 100 mg/kg

trizinc

Exposure Route: Fresh Water; PNEC Limit: 0,206 mg/l

bis(orthophosphate) CAS: 7779-90-0

Exposure Route: Marine water; PNEC Limit: 0,0061 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 117,8 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 56,5 mg/kg

Exposure Route: Soil; PNEC Limit: 35,6 mg/kg

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

zinc oxide CAS: 1314-13-2 Exposure Route: Fresh Water; PNEC Limit: 0,0206 mg/l

Exposure Route: Marine water; PNEC Limit: 0,0061 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 235,6 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 113 mg/kg

Exposure Route: Soil; PNEC Limit: 106,8 mg/kg

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

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

acetate CAS: 108-65-6

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

Consumer: 33 mg/m3

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

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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

barium sulfate CAS: 7727-43-7 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 10 mg/m3

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

Worker Professional: 10 mg/m3

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

Consumer: 10 mg/m3

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

Consumer: 13000 mg/kg

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

trizinc

bis(orthophosphate) CAS: 7779-90-0

Exposure Route: Human Inhalation; Exposure Frequency: Local Effects

Worker Professional: 5 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Worker Professional: 83 ppm

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Consumer: 83 ppm

Exposure Route: Human Inhalation; Exposure Frequency: Local Effects

Consumer: 2,5 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Chronic Effects

Consumer: 0,83 ppm

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

zinc oxide Exposure Route: Human Inhalation; Exposure Frequency: Local Effects CAS: 1314-13-2

Worker Professional: 5 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Worker Professional: 83 ppm

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Consumer: 83 ppm

Exposure Route: Human Inhalation; Exposure Frequency: Local Effects

Consumer: 2,5 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Chronic Effects

Consumer: 0,83 ppm

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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

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.)

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

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

toluene

CAS: 108-88-3

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: Violet Odour: N.A. pH: Not Relevant

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

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: 23°C / 60°C

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

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.67 g/cm3
Solubility in water: N.A.
Solubility in oil: N.A.

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

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: 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.

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 - Dermal: 20719.2 mg/kg bw

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ATEmix - Inhalation (Vapours): 207.192 mg/l

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation The product is classified: Skin Sens. 1(H317)

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

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

2-methoxy-1-methylethyl a) acute toxicity LD50 Oral Rat > 5000 mg/kg

acetate

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

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

LD50 Skin Rabbit > 5000, mg/kg

kaolin a) acute toxicity LD50 Oral Rat > 5000, mg/kg

Talc (Mg3H2(SiO3)4) a) acute toxicity LD50 Oral > 5000, mg/kg bw

xylene a) acute toxicity LD50 Oral Mouse = 5627 mg/kg

LC50 Inhalation Rat = 6700 Ppm 4h LD50 Skin Rabbit > 5000 mg/kg

zinc oxide a) acute toxicity LD50 Oral Rat > 5000, mg/kg

LC50 Inhalation Dust Rat > 5,7 mg/l 4h

LD50 Skin Rat > 2000, mg/kg

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

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

LD50 Skin Rabbit > 5000, mg/kg

Carbon black a) acute toxicity LD50 Oral Rat > 8000, mg/kg

toluene a) acute toxicity LD50 Oral Rat = 5000 mg/kg

LC50 Inhalation Rat = 25,7 mg/l 4hLD50 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.

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SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

Component	Ident. Numb.	Ecotox Data
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) $>= 100 \text{ mg/L } 21 \text{ D}$
		e) Plant toxicity : NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H $$
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2,6 mg/L 96 H
		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H $$
		e) Plant toxicity : ECO Algae Pseudokirchneriella subcapitata (green algae) = 0,44 mg/L 72 H $$
		b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1,3 mg/L 56 D
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = 4,36 mg/L 72 H $$
zinc oxide	CAS: 1314-13-2 - EINECS: 215- 222-5 - INDEX: 030-013-00-7	a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 0,17 mg/L 72h
		a) Aquatic acute toxicity: EC50 Daphnia = 0,413 mg/L 48h
		a) Aquatic acute toxicity: LC50 Fish = 0,1169 mg/L 96h
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) = $44 \text{ mg/L} 48 \text{ H OECD Test Guideline } 202$
		e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201

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40 H

c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L

Carbon black CAS: 1333-86-4 a) Aquatic acute toxicity: LC10 Fish Brachydanio rerio (zebrafish) = 1000

- EINECS: 215- mg/L 96h

609-9

a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) >

5600 mg/L 48h

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus (green

algae) > 10000 mg/L 72h

toluene CAS: 108-88-3 - a) Aquatic acute toxicity: LC50 Fish Oncorhynchus kisutch (coho salmon) = EINECS: 203- 5,5 mg/L 96 H

EINECS: 203-625-9 - INDEX: 601-021-00-3

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

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

Most important toxic component: trizinc bis(orthophosphate)

Toxic ingredients quantity: 0.13 Very toxic ingredients quantity: 6.17

Marine pollutant: Yes

Environmental Pollutant: Yes

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IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: 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

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. 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. 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: 30, 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

Product belongs to category: P5c 5000 50000

Product belongs to category: E2 200 500

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

No substances listed

German Water Hazard Class.

2: Hazard to waters

SVHC Substances:

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DIRECTIVE 2010/75/EU (VOC directive)

Volatile Organic compounds - VOCs = 29.68 % Volatile Organic compounds - VOCs = 495.64 g/L

Estimated Total Content of Water 0.00 % Estimated Total Solid Content 70.32 %

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

5 - 6 3.794 m3 air/10 g 1993 Administrative determined MAL-

Factors

Biocides

Code

EUH066

REGULATION (EC) No 528/2012

15.2. Chemical safety assessment

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

Repeated exposure may cause skin dryness or cracking.

SECTION 16: Other information

Description

	, , , ,	•		
H225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
H304	May be fatal if swallowed and enters airways.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.	Causes skin irritation.		
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H336	May cause drowsiness or dizziness.			
H361	Suspected of damaging fertility or the unb	oorn child.		
H372	Causes damage to organs through prolonged or repeated exposure.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting ef	fects.		
Code	Hazard class and hazard category	Description		
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2		
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3		
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4		
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4		
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1		
3.2/2	Skin Irrit. 2	Skin irritation, Category 2		
3.3/2	Eye Irrit. 2	Eye irritation, Category 2		
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1		
3.7/2	Repr. 2	Reproductive toxicity, Category 2		
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3		
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1		
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2		
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1		
	Aquatic Acute 1	, , , , , , , , , , , , , , , , , , , ,		
4.1/C1	Aquatic Acute 1 Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1		
4.1/C1 4.1/C2				
,	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1		

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

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[CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/3	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1	Calculation method
3.8/3	Calculation method
4.1/C2	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

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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 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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