

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

1.1. Product identifier

Mixture identification:

Trade name: FIX-O-DUR EC HARDENER

Trade code: L0000328

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

Recommended use: Coatings and paints, thinners, paint removers

Acid compound Liquid solution

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. 2	Highly flammable liquid and vapour.		
Skin Irrit. 2	Causes skin irritation.		
Eye Irrit. 2	Causes serious eye irritation.		
Repr. 2	Suspected of damaging fertility or the unborn child.		
STOT SE 3	May cause respiratory irritation.		
STOT SE 3	May cause drowsiness or dizziness.		
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.		
Asp. Tox. 1	May be fatal if swallowed and enters airways.		
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.		
Adverse physicochemical, human health and environmental effects:			

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Hazard statements

H225 Highly flammable liquid and vapour.

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- 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.

Contains

n-butyl acetate

xylene

toluene

propan-2-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

ΝΑ

3.2. Mixtures

Mixture identification: FIX-O-DUR EC HARDENER

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - ≤30 %	ethanol	CAS:64-17-5 EC:200-578-6 Index:603-002- 00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319	01-2119457610-43
≥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
≥20 - ≤25 %	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
≥10 - ≤12.5 %	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

≥7 - ≤10 %	propan-2-ol	CAS:67-63-0 EC:200-661-7 Index:603-117- 00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25
≥1 - ≤2.5 %	phosphoric acid	CAS:7664-38-2 EC:231-633-2 Index:015-011-	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318	01-2119485924-24
		00-6	Specific Concentration Limits: $C \ge 25\%$: Skin Corr. 1B H314 $10\% \le C < 25\%$: Skin Irrit. 2 H315 $10\% \le C < 25\%$: Eve Irrit. 2 H319	
			,	
≥0.25 - ≤0.3 %	butanone	CAS:78-93-3 EC:201-159-0 Index:606-002- 00-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119457290-43

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

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

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

4.3. Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

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

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

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

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

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
ethanol CAS: 64-17-5	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1920 mg/m3 - 1000 ppm Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	ACGIH		Short Term: 1000 ppm A3 - URT irr
n-butyl acetate CAS: 123-86-4	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm
	EU		Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative

	ACGIH		Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr
xylene CAS: 1330-20-7	ACGIH		Long Term: 20 ppm A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	EU		Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin
toluene CAS: 108-88-3	EU		Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Behaviour Indicative 2006/15/EC
	EU		Identifies the possibility of significant uptake through the skin
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 191 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
propan-2-ol CAS: 67-63-0	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm
	ACGIH		Long Term: 200 ppm; Short Term: 400 ppm A4, BEI - Eye and URT irr, CNS impair
phosphoric acid CAS: 7664-38-2	EU		Long Term: 1 mg/m3; Short Term: 2 mg/m3 Behaviour Indicative 2000/39/EC
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	ACGIH		Long Term: 1 mg/m3; Short Term: 3 mg/m3 URT, eye and skin irr
butanone CAS: 78-93-3	EU		Long Term: 600 mg/m3 - 200 ppm; Short Term: 900 mg/m3 - 300 ppm Behaviour Indicative 2000/39/EC
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 600 mg/m3 - 200 ppm; Short Term: 899 mg/m3 - 300 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: 200 ppm; Short Term: 300 ppm BEI - URT irr, CNS and PNS impair
Biological limit values			
xylene CAS: 1330-20-7	Biological Ir Value: 1.5 r Remark: Cr	ndicator: xylen mg/L; Medium: oatia. Biologica	e; Sampling Period: End of turn Blood Il Exposure Limits
	Biological Ir Value: 1.5 g Remark: Ne	ndicator: Methy g/l; Medium: U ew Zealand. Bio	rlhippuric acid; Sampling Period: End of turn rine ological Exposure Indices

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Biological Indicator: xylene; Sampling Period:	End	of	turr
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 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

toluene CAS: 108-88-3

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 0.5 mg/L; Medium: Urine Remark: Argentina. Biological Exposure Indices

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

Biological Indicator: Toluene; Sampling Period: Prior to last shift of workweek Value: 0.05 mg/L; Medium: Blood Remark: Argentina. Biological Exposure Indices

Biological Indicator: O-Cresol; Sampling Period: At the end of a work week / at the end of a work day / at the end of a shift Value: 0.8 mg/L; Medium: Urine Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: Toluene; Sampling Period: End of workday Value: 250 µg/L; Medium: Blood Remark: Austria. Regulation on health surveillance in the workplace 2014

Biological Indicator: Hippuric acid; Sampling Period: End of last day of the working day (recommended to

avoid the first day of the week) Value: 25 g/g creatinine; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents

Biological Indicator: Hippuric acid; Sampling Period: End of turn Value: 16 mmol/mmol creatinine; Medium: Urine Remark: Bulgaria. Biological limit values

Biological Indicator: Toluene; Sampling Period: Before shift at end of workweek Value: 0.05 mg/L; Medium: Blood Remark: Chile. Biological Limit Values

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

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

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

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

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

Biological Indicator: Toluene; Sampling Period: End of workshift (15-30 min after exposure has ended) Value: 20 mg/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 Value: 600 µg/L; Medium: Blood Remark: TRGS 903 - Biological limit values

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

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

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

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

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

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

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

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

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

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

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

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 0.5 mg/L; Medium: Urine

Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

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

Biological Indicator: Toluene; Sampling Period: Before last turn of the working week Value: 0.05 mg/L; Medium: Blood Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Biological Indicator: O-Cresol; Sampling Period: End of turn Value: 108 micromoles per millimole creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift Value: 1.5 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Toluene; Sampling Period: End of turn Value: 600 micromol per litre; Medium: Blood Remark: Slovenia. BAT-values

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

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

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

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

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

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

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

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one shift Value: 2 g/g creatinine; Medium: Urine

Remark: Svizzera. Lista di valori BAT

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

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

Biological Indicator: Hippuric acid; Sampling Period: In case of long-term exposure: after more than one shift Value: 126 mmol/mmol creatinine; Medium: Urine

Remark: Svizzera. Lista di valori BAT Biological Indicator: O-Cresol; Sampling Period: In case of long-term exposure: after more than one shift

Value: 462 micromol per litre; Medium: Urine Remark: Svizzera. Lista di valori BAT

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

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

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

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

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

Biological Indicator: O-Cresol; Sampling Period: End of turn

Value: 3 mg/g Creatinine; Medium: Urine Remark: ACGIH - Indicatori di Esposizione Biologica (BEI) Biological Indicator: O-Cresol; Sampling Period: End of workday Value: 0.5 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits Biological Indicator: Hippuric acid; Sampling Period: End of workday Value: 16 g/g creatinine; Medium: Urine Remark: VE.Biological Exposure Limits Biological Indicator: Toluene; Sampling Period: Prior to last workday of workweek Value: 0.05 mg/L; Medium: Blood Remark: VE.Biological Exposure Limits Biological Indicator: Acetone propan-2-ol CAS: 67-63-0 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 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 butanone Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine CAS: 78-93-3 Remark: Argentina. Biological Exposure Indices Biological Indicator: MEK; Sampling Period: End of last day of the working day (recommended to avoid the first day of the week) Value: 2 mg/L; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents Biological Indicator: MEC; Sampling Period: FSL Value: 26 mg/g Creatinine; Medium: Urine Remark: Chile. Biological Limit Values Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu Biological Indicator: ethyl-methyl-ketone; Sampling Period: End of turn Value: 408 Millimoles per mole Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits Biological Indicator: ethyl-methyl-ketone; Sampling Period: End of turn Value: 26 mg/g Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits Biological Indicator: 2-butanone; Sampling Period: Immediately after exposure or after working hours Value: 2 mg/L; Medium: Urine Remark: TRGS 903 - Biological limit values Biological Indicator: MEK; Sampling Period: End of shift or A few hours after high exposure Value: 5 mg/L; Medium: Urine Remark: Occupational exposure limits based on biological monitoring (JSOH). Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: New Zealand. Biological Exposure Indices Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Portuguese Norm 1796 - Biological Exposure Indices Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Romania. Biological limit values Sampling Period: End of turn Value: 2 mg/L; Medium: Urine Remark: Slovenia. BAT-values Biological Indicator: MEK; Sampling Period: End of turn Value: 26 mg/g Creatinine; Medium: Urine

	Remark: Slovenia. BAT-values
	Dislogical Indicatory MEK, Complian Davied, End of two
	Value: 2 mg/L; Medium: Urine
	Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.
	Biological Indicator: MEK; Sampling Period: End of workday
	Value: 2 mg/L; Medium: Urine Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values
	Biological Indicator: 2-butanone (MEK); Sampling Period: Immediately after exposure or after working hours
	Value: 2 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicatory 2-Butanon (MEK): Sampling Period: Immediately after expective or after working hours
	Value: 277 micromol per litre; Medium: Urine Remark: Svizzera. Lista di valori BAT
	Biological Indicator: butan-2-one; Sampling Period: After shift
	Value: 70 micromol per litre; Medium: Urine
	Biological Indicator: MEK; Sampling Period: End of turn Value: 2 mg/L: Medium: Urine
	Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)
	Biological Indicator: MEK; Sampling Period: End of workday
	Value: 2 mg/L; Medium: Urine
	Sampling Period: End of turn
Predicted No Effect Cor	ncentration (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/i
	Exposure Route: Marine water sediments: PNEC Limit: 0.09 mg/kg
	Exposure Route: Soil: PNEC Limit: 0.09 ma/ka
	Exposure Route: Microorganisms in sewage treatments: PNEC Limit: 35.6 mg/l
xylene	Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l
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: 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
toluene CAS: 108-88-3	Exposure Route: Fresh Water; PNEC Limit: 0.68 mg/l
	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
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: Microorganisms in sewage treatments; PNEC Limit: 2251 mg/l
butanone CAS: 78-93-3	Exposure Route: Oral; PNEC Limit: 1000 mg/kg
	Exposure Route: Fresh Water; PNEC Limit: 55.8 mg/l
	Exposure Route: Marine water; PNEC Limit: 55.8 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 284.74 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 284 mg/kg
	Exposure Route: Soil; PNEC Limit: 22.5 mg/kg
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 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.)
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
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

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 226 mg/kg Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)				
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				
propan-2-ol Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects CAS: 67-63-0				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 89 mg/m3				
Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects				
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 500 mg/m3				
phosphoric acidExposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effectsCAS: 7664-38-2Worker Professional: 10.7 mg/m3				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 4.57 mg/m3				
Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.1 mg/kg				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 1 mg/m3				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0.36 mg/m3				
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 2 mg/m3				
butanoneExposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effectsCAS: 78-93-3Worker Professional: 1161 mg/kg; Consumer: 412 mg/kg				
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 600 mg/m3; Consumer: 106 mg/m3				
Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 31 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.				
Lise protective gloves that provides comprehensive protection e.g. P.V.C. peoprene or rubber				
Respiratory protection:				
Thermal Hazards				
N.A.				
Environmental exposure controls:				

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: Colourless Odour: N.A. pH: Not Relevant Kinematic viscosity: <= 14 mm2/sec (40 °C) Melting point/freezing point: N.A. Boiling point or initial boiling point and boiling range: N.A. Flash point: 11 °C (52 °F) Lower and upper explosion limit: N.A. Relative vapour density: N.A. Vapour pressure: N.A. Density and/or relative density: 0.85 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. 2 H225 Kinematic viscosity m2/s (40°C) <= 14 mm2/sec (40 °C) Viscosity: = 30.00 s - Method: ASTM D 1200 82 - Section: 2.00 mm Particle characteristics: Particle size: N.A. Evaporation rate: N.A.

9.2. Other information

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 : 4721.03 mg/kg bw
	ATEmix - Inhalation (Vapours) : 47.2103 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	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met

g) reproductive	e toxicity	The product is classified: Repr. 2(H361)			
h) STOT-single	exposure	The product is classified: STOT SE 3(H335), STOT SE 3(H336)			
i) STOT-repeat	ed exposure	The product is classified: STOT RE 2(H373)			
j) aspiration ha	zard	The product is classified: Asp. Tox. 1(H304)			
Toxicological informa	tion on main com	ponents of the mixture:			
n-butyl acetate	a) acute toxicity	LD50 Oral Rat = 10760 mg/kg OECD Test Guideline 423			
		LC50 Inhalation > 20 mg/l 4h			
		LD50 Skin Rabbit > 14112 mg/kg OECD Test Guideline 402			
xylene	a) acute toxicity	LD50 Oral Mouse = 5627 mg/kg			
		LC50 Inhalation Rat = 6700 Ppm 4h			
		LD50 Skin Rabbit > 5000 mg/kg			
toluene	a) acute toxicity	LD50 Oral Rat = 5000 mg/kg			
		LC50 Inhalation Rat = 25.7 mg/l 4h			
		LD50 Skin Rabbit = 12267 mg/kg			
propan-2-ol	a) acute toxicity	LD50 Oral Rat = 5840 mg/kg			
		LC50 Inhalation Rat > 10000 Ppm 6h			
phosphoric acid	a) acute toxicity	LD50 Oral Rat = 2600 mg/kg			
		LD50 Skin Rabbit = 2740 mg/kg			
butanone	a) acute toxicity	LC50 Inhalation Rat > 5000 mg/l			
		LD50 Oral Rat = 2054 mg/kg			

11.2. Information on other hazards

Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201
		c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1

		mg/L 24 H
		e) Plant toxicity : EC0 Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H
		 b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1.3 mg/L 56 D
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = 4.36 mg/L 72 H
toluene	CAS: 108-88-3 - EINECS: 203- 625-9 - INDEX: 601-021-00-3	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus kisutch (coho salmon) = 5.5 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Ceriodaphnia dubia (water flea) = 3.78 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
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
phosphoric acid	CAS: 7664-38-2 - EINECS: 231- 633-2 - INDEX: 015-011-00-6	a) Aquatic acute toxicity : LC50 Fish = 75.1 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates > 100 mg/L 48 H
		e) Plant toxicity: EC50 Algae > 100 mg/L 72 H
butanone	CAS: 78-93-3 - EINECS: 201- 159-0 - INDEX: 606-002-00-3	a) Aquatic acute toxicity : LC50 Fish pimephales promelas = 2993 mg/L 96h OECD 203
		a) Aquatic acute toxicity: EC50 Invertebrates daphnia magna = 308 mg/L 48h OECD 202
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 2029 mg/L 96h OECD 201

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

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL IATA-Shipping Name: PAINT RELATED MATERIAL IMDG-Shipping Name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR-Class: 3 IATA-Class: 3 IMDG-Class: 3

14.4. Packing group

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

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, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID): ADR-Label: 3

ADR - Hazard identification number: 33 ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353 IATA-Cargo Aircraft: 364 IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category B

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 618/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 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)					
Regulati	Regulation (EU) n. 2019/521 (ATP 12 CLP)				
Regulati	Regulation (EU) n. 2020/217 (ATP 14 CLP)				
Regulati	Regulation (EU) n. 2020/1182 (ATP 15 CLP)				
Regulati	on (EU) n. 2021	./643 (ATP 16 CLP)			
Regulati	on (EU) n. 2021	./849 (ATP 1/ CLP)			
Regulati	on (EU) n. 2022	1/878			
Restric and sul	tions related to sequent modi	o the product or t fications:	he substances contained accor	ding to Annex XVII Re	gulation (EC) 1907/2006 (REACH)
	Restrictions rel	ated to the product	: 3, 40		
	Restrictions rel	ated to the substan	ces contained: 48, 75		
Provisi	ons related to	directive EU 2012	/18 (Seveso III):		
	Seveso III ca to Annex 1, p	tegory according art 1	Lower-tier threshold (tonnes) Upper-tier threshol	d (tonnes)
	Product belong	s to category: P5c	5000	50000	
Regula	tion (EU) No 6	49/2012 (PIC reg	ulation)		
	No substances	listed			
Germai	n Water Hazaro	d Class.			
	2: Hazard to w	aters			
German	n Lagerklasse a	according to TRGS	5 510:		
	LGK 3				
SVHC S	ubstances:				
	No SVHC subst	ances present in co	ncentration $>= 0.1\%$		
DIRECT	IVE 2010/75/	EU (VOC directive	e)		
	Volatile Organi	c compounds - VOC	s = 95.40 %		
	Volatile Organi	c compounds - VOC	s = 810.90 g/L		
	Estimated Tota	Solid Content 1 70	2.90 %		
Classifi	cation accordi	na to VbF	5 /0		
0.000	Classification a	ccording to VbF A I	- Flash point less than 21 °C, at 1	5 °C not miscible in wate	er
Mal-Co	de (Denmark)	5			
Mal-Cod	e (Denmark)	Mal Factor	Unit of Measure Revis	on Status / Number	Regulatory Base
4 - 3		2284	m3 air/10 g 1993		Administrative determined MAL- Factors
Biocid	es				
REGULA	TION (EC) No 5	28/2012			
15.2. C	hemical safety	assessment			
	No Chemical Sa	afety Assessment ha	as been carried out for the mixtur	2.	
SECTI	ON 16: Other	information			
Code	Descr	ription			
EUH066	D66 Repeated exposure may cause skin dryness or cracking.				
H225	25 Highly flammable liquid and vapour.				
H226	26 Flammable liquid and vapour.				
H290	90 May be corrosive to metals.				

- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- 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.
- 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.

H412 Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level. **DPD:** Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration ECHA: European Chemicals Agency EINECS: European Inventory of Existing Commercial Chemical Substances. ES: Exposure Scenario GefStoffVO: Ordinance on Hazardous Substances, Germany. GHS: Globally Harmonized System of Classification and Labeling of Chemicals. IARC: International Agency for Research on Cancer IATA: International Air Transport Association. IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA). IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization. ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO). IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients. IRCCS: Scientific Institute for Research, Hospitalization and Health Care KAFH: KAFH KSt: Explosion coefficient. LC50: Lethal concentration, for 50 percent of test population. LD50: Lethal dose, for 50 percent of test population. LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable N/D: Not defined/ Not available NA: Not available NIOSH: National Institute for Occupational Safety and Health NOAEL: No Observed Adverse Effect Level OSHA: Occupational Safety and Health Administration PBT: Persistent, Bioaccumulative and Toxic PGK: Packaging Instruction PNEC: Predicted No Effect Concentration. **PSG:** Passengers RID: Regulation Concerning the International Transport of Dangerous Goods by Rail. STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. TLV: Threshold Limiting Value. TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard). vPvB: Very Persistent, Very Bioaccumulative. WGK: German Water Hazard Class. Paragraphs modified from the previous revision: - SECTION 2: Hazards identification - SECTION 3: Composition/information on ingredients

- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information