# **Safety Data Sheet**

# **ENERGY LINE FAST FILLER LIGHT GREY**

Safety Data Sheet dated 06/09/2023 version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: ENERGY LINE FAST FILLER LIGHT GREY

Trade code: L0EL0070

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

Recommended use: Coatings and paints, thinners, paint removers

Mono compound primer (undercoat)

Liquid pigmented dispersion

Professional uses

Uses advised against: N.A.

#### 1.3. Details of the supplier of the safety data sheet

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111 First Email: safety@lechler.eu

# 1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

# **SECTION 2: Hazards identification**





# 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Aerosols 1 Extremely flammable aerosol. Pressurized container: may burst if heated.

Eye Irrit. 2 Causes serious eye irritation.

STOT SE 3 May cause drowsiness or dizziness.

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

DECL10 This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not

meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

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

aerodynamic diameter ≤ 10 µm.

Adverse physicochemical, human health and environmental effects:

No other hazards

# 2.2. Label elements

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

#### Hazard pictograms and Signal Word



Hazard statements

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

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H336	May	cause	drowsiness	or	dizziness.

H412 Harmful 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.
P/10	Keen away irom near nor surraces, sparks, open hames and other ignition sources, no smoking

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with applicable regulations.

#### **Special Provisions:**

EUH066 Repeated exposure may cause skin dryness or cracking.

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

#### **Contains**

acetone

n-butyl acetate ethyl acetate 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

N.A.

#### 3.2. Mixtures

Mixture identification: ENERGY LINE FAST FILLER LIGHT GREY

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥30 - ≤40 %	dimethyl ether	CAS:115-10-6 EC:204-065-8 Index:603-019- 00-8	Flam. Gas 1, H220; Press. Gas (Comp.), H280	01-2119472128-37
≥15 - ≤20 %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001- 00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49
≥12.5 - ≤15 %	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
≥5 - ≤7 %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022- 00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46
≥3 - ≤5 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5 Index:022-006-		01-2119489379-17

≥1 - ≤2.5 %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022- 00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; STOT SE 3, H335	01-2119488216-32
≥1 - ≤2.5 %	Talc (Mg3H2(SiO3)4)	CAS:14807-96-6 EC:238-877-9	Substance with a Union workplace exposure limit.	
≥1 - ≤2.5 %	propan-2-ol	CAS:67-63-0 EC:200-661-7 Index:603-117- 00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25
≥1 - ≤2.5 %	2-butoxyethanol; ethylene glycol monobutyl ether	CAS:111-76-2 EC:203-905-0 Index:603-014- 00-0	Acute Tox. 3, H331 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	01-2119475108-36
			Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw ATE - Inhalation (Vapours): 3mg/l	
≥0.5 - ≤1 %	trizinc bis(orthophosphate)	CAS:7779-90-0 EC:231-944-3 Index:030-011- 00-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119485044-40
≥0.5 - ≤1 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023- 00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; Asp. Tox. 1, H304; STOT RE 2, H373	
≥0.25 - ≤0.3 %	silicon dioxide	CAS:7631-86-9 EC:231-545-4	Substance with a Union workplace exposure limit.	01-2119379499-16
≥0.1 - ≤0.25 %	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
< 0.1 %	Carbon black	CAS:1333-86-4 EC:215-609-9		01-2119384822-32
< 0.1 %	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 $10\% \le C < 25\%$ : Eye Irrit. 2 H319	
< 0.1 %	Respirable crystalline silica	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
< 0.1 %	formaldehyde	CAS:50-00-0 EC:200-001-8 Index:605-001- 00-5	Acute Tox. 3, H301 Acute Tox. 3, H331 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350	01-2119488953-20
			Specific Concentration Limits: $C \ge 25\%$ : Skin Corr. 1B H314 $5\% \le C < 25\%$ : Skin Irrit. 2 H315 $5\% \le C < 25\%$ : Eye Irrit. 2 H319 $C \ge 5\%$ : STOT SE 3 H335 $C \ge 0.2\%$ : Skin Sens. 1 H317	

# **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

D10: >= 18 nm <= 61 nm 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.

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

# 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:

CO2 or Dry chemical fire extinguisher.

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

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#### 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

# 7.2. Conditions for safe storage, including any incompatibilities

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
dimethyl ether CAS: 115-10-6	EU		Long Term: 1920 mg/m3 - 1000 ppm Behaviour Indicative 2000/39/EC
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 766 mg/m3 - 400 ppm; Short Term: 958 mg/m3 - 500 ppm
acetone CAS: 67-64-1	ACGIH		Long Term: 250 ppm; Short Term: 500 ppm A4, BEI - URT and eye irr, CNS impair
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 3620 mg/m3 - 1500 ppm
	EU		Long Term: 1210 mg/m3 - 500 ppm Behaviour Indicative 2000/39/EC
n-butyl acetate CAS: 123-86-4	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	
	EU		Long Term: 241 mg/m3 - 50 ppm; Short Term: 723 mg/m3 - 150 ppm Behaviour Indicative 2019/1831/EU
	ACGIH		Long Term: 50 ppm; Short Term: 150 ppm Eye and URT irr
ethyl acetate CAS: 141-78-6	EU		Long Term: 734 mg/m3 - 200 ppm; Short Term: 1468 mg/m3 - 400 ppm Behaviour Indicative 2017/164/EU

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EH40 Long Term: 734 mg/m3 - 200 ppm; Short Term: 1468 mg/m3 - 400 ppm UNITED KINGDOM OF **GREAT** BRITAIN AND **NORTHERN IRELAND** EH40 UNITED Long Term: 10 mg/m3 KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. **GREAT BRITAIN AND NORTHERN IRELAND EH40** UNITED Long Term: 4 mg/m3 KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. **GREAT BRITAIN AND NORTHERN IRELAND ACGIH** Long Term: 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 **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 FU Identifies the possibility of significant uptake through the skin ACGIH Long Term: 2 mg/m3 Containing no asbestos fibers\$ E,R, A4 - Pulm fibrosis, pulm func 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 EU Respirable dust FH40 UNITED Long Term: 999 mg/m3 - 400 ppm; Short Term: 1250 mg/m3 - 500 ppm KINGDOM OF GREAT **BRITAIN AND NORTHERN IRELAND** 

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

A4, BEI - Eye and URT irr, CNS impair

2-butoxyethanol; ethylene EU Long Term: 98 mg/m3 - 20 ppm; Short Term: 246 mg/m3 - 50 ppm glycol monobutyl ether Behaviour Indicative

2000/39/EC

EU Identifies the possibility of significant uptake through the skin

EH40 UNITED Long Term: 25 ppm; Short Term: 50 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

titanium dioxide

xylene

CAS: 1330-20-7

Talc (Mg3H2(SiO3)4)

CAS: 14807-96-6

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

CAS: 111-76-2

CAS: 13463-67-7

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ethylbenzene ΕU Long Term: 442 mg/m3 - 100 ppm; Short Term: 884 mg/m3 - 200 ppm CAS: 100-41-4 Behaviour Indicative 2000/39/EC EU Identifies the possibility of significant uptake through the skin **EH40** UNITED Long Term: 441 mg/m3 - 100 ppm; Short Term: 552 mg/m3 - 125 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 ACGIH** Long Term: 20 ppm OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair silicon dioxide ΕU Long Term: 0.1 mg/m3 CAS: 7631-86-9 2004/37/EC EU Carcinogens or mutagens FU Respirable dust **EH40** UNITED Long Term: 6 mg/m3 KINGDOM OF The COSHH definition of a substance hazardous to health includes dust of any kind **GREAT** when present at a concentration in air equal to or **BRITAIN AND** NORTHERN **IRELAND EH40** UNITED Long Term: 2.4 mg/m3 KINGDOM OF Where no specific short-term exposure limit is listed, a figure three times the long-term **GREAT** exposure limit should be used. **BRITAIN AND NORTHERN IRELAND** 2-methoxy-1-methylethyl EU Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm acetate Behaviour Indicative CAS: 108-65-6 2000/39/EC ΕU Identifies the possibility of significant uptake through the skin FH40 Long Term: 274 mg/m3 - 50 ppm; Short Term: 548 mg/m3 - 100 ppm UNITED KINGDOM OF Can be absorbed through the skin. The assigned substances are those for which there **GRFAT** are concerns that dermal absorption will lead to **BRITAIN AND** NORTHERN **IRELAND** Carbon black FH40 Long Term: 3.5 mg/m3; Short Term: 7 mg/m3 UNITED CAS: 1333-86-4 KINGDOM OF GREAT **BRITAIN AND** NORTHERN **IRELAND ACGIH** Long Term: 3 mg/m3 I, A3 - Bronchitis phosphoric acid EU Long Term: 1 mg/m3; Short Term: 2 mg/m3 CAS: 7664-38-2 Behaviour Indicative 2000/39/EC

EH40 UNITED

Long Term: 1 mg/m3; Short Term: 2 mg/m3

KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

ACGIH Long Term: 1 mg/m3; Short Term: 3 mg/m3

URT, eye and skin irr

Respirable crystalline silica

CAS: 14808-60-7

ACGIH Long Term: 0.025 mg/m3

R, A2 - Pulm fibrosis, lung cancer

EH40 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

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**IRELAND** 

EU Long Term: 0.1 mg/m3

2004/37/EC

EU Respirable dust

EU Carcinogens or mutagens

formaldehyde CAS: 50-00-0

ACGIH Long Term: 0.1 ppm; Short Term: 0.3 ppm DSEN, RSEN, A1 - URT and eye irr, URT cancer

EH40 UNITED Long Term: 2.5 mg/m3 - 2 ppm; Short Term: 2.5 mg/m3 - 2 ppm

KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

EU Long Term: 0.37 mg/m3 - 0.3 ppm; Short Term: 0.74 mg/m3 - 0.6 ppm

2004/37/EC

EU Dermal sensitisation
EU Carcinogens or mutagens

### **Biological limit values**

acetone Biological Indicator: Acetone; Sampling Period: End of turn

CAS: 67-64-1 Value: 50 mg/L; Medium: Urine

Remark: Argentina. Biological Exposure Indices

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 80 mg/L; Medium: Urine Remark: Bulgaria. Biological limit values

Biological Indicator: Acetone; Sampling Period: FSL

Value: 30000 μg/g; Medium: Urine Remark: Chile. Biological Limit Values

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 25 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: 34 Millimoles per liter; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 20 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn Value: 39 Millimoles per mole Creatinine; Medium: Urine

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 20 mg/g Creatinine; Medium: Urine Remark: Croatia. Biological Exposure Limits

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

Value: 80 mg/L; Medium: Urine

Remark: TRGS 903 - Biological limit values

Biological Indicator: Acetone; Sampling Period: Within 2 h prior to end of shift

Value: 40 mg/L; Medium: Urine

Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 50 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

Value: 50 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: 80 mg/L; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 1378 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 5336 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Acetone; Sampling Period: End of turn Value: 1039 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 80 mg/L; Medium: Urine Remark: Slovenia. BAT-values

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 100 mg/L; Medium: Urine

Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Acetone; Sampling Period: End of workday

Value: 50 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: 138 Millimoles per liter: Medium: Urine

Remark: Svizzera. Lista di valori BAT

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

Value: 80 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 25 mg/L; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Acetone; Sampling Period: End of workday

Value: 50 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits

Sampling Period: End of turn

Biological Indicator: xylene; Sampling Period: End of turn xylene CAS: 1330-20-7

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/I; 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.

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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

nours

Value: 2 g/l; Medium: Urine

Remark: Svizzera. Lista di valori BAT

propan-2-ol CAS: 67-63-0 Biological Indicator: Acetone

Value: 2 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices

Biological Indicator: Acetone; Sampling Period: End of turn; End of working week

Value: 40 mg/L; Medium: Urine

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

Exposu

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 50 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 86 micromol per litre; Medium: Blood Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 50 mg/L; Medium: Urine

Remark: Croatia. Biological Exposure Limits

Biological Indicator: Acetone; Sampling Period: End of turn

Value: 86 micromol per litre; Medium: Urine Remark: Croatia. Biological Exposure Limits

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

Value: 25 mg/L; Medium: Blood

Remark: TRGS 903 - Biological limit values

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

Value: 25 mg/L; Medium: Urine

Remark: TRGS 903 - Biological limit values

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

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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

2-butoxyethanol; Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn

ethylene glycol monobutyl Value: 200 mg/g Creatinine; Medium: Urine

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

CAS: 111-76-2 Exposu

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn; End of working week

Value: 200 mg/g Creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn; End of working week

Value: 17 mmol/mmol creatinine; Medium: Urine Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: Immediately after exposure or after

working hours

Value: 150 mg/g Creatinine; Medium: Urine Remark: TRGS 903 - Biological limit values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: In case of long-term exposure: after more

than one shift

Value: 100 mg/L; Medium: Urine

Remark: TRGS 903 - Biological limit values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn

Value: 200 mg/g Creatinine; Medium: Urine

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

for work

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn

Value: 200 mg/g Creatinine; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: methoxy acetic acid; Sampling Period: during long-term exposure: at the end of the

work shift after several consecutive workdays Value: 150 mg/g Creatinine; Medium: Urine

Remark: Slovenia. BAT-values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of workday

Value: 200 mg/g Creatinine; Medium: Urine

Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: 2-butoxy acetic acid; Sampling Period: Immediately after exposure or after working

hours

Value: 150 mg/g Creatinine; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: After shift

Value: 240 Millimoles per mole Creatinine; Medium: Urine

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Remark: UK. Biological monitoring guidance values

Biological Indicator: Butoxyacetic acid (BAA); Sampling Period: End of turn

Value: 200 mg/g Creatinine; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Butoxyacetic acid ( BAA ); Sampling Period: End of workday

Value: 200 mg/g Creatinine; Medium: Urine Remark: VE.Biological Exposure Limits

Sampling Period: In case of long-term exposure: after more than one shift

Sampling Period: End of turn

Sampling Period: In case of long-term exposure: after more than one shift

ethylbenzene Biological Indicator: mandelic acid; Samı CAS: 100-41-4 Value: 15 g/g creatinine; Medium: Urine

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

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

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

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

Remark: Argentina. Biological Exposure Indices

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

Value: 15 g/g creatinine; Medium: Urine

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

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

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

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

Value: 1500 mg/g Creatinine; Medium: Urine

Remark: Chile. Biological Limit Values

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

Value: 15 g/g creatinine; Medium: Urine

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

Exposu

Biological Indicator: Ethylbenzene; Sampling Period: during exposure

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

Biological Indicator: Ethylbenzene; Sampling Period: during exposure

Value: 1.5 mg/L; Medium: Blood

Remark: Croatia. Biological Exposure Limits

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

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

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

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

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

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

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

Remark: Czech Republic. Biological Exposure Indices

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

period

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

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

after working hours

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

Biological Indicator: mandelic acid; Sampling Period: After shift

Value: 1500 mg/g Creatinine; Medium: Urine

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

Biological Indicator: mandelic acid; Sampling Period: After shift Value: 1110 micromoles per millimole creatinine; Medium: Urine

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

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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

\_imits

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

working week

Value: 7 g/g creatinine; Medium: Urine

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

for work

Biological Indicator: Ethylbenzene; Sampling Period: Not critical

Medium: exhaled air

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

for work

Biological Indicator: Sum of mandelic acid and phenylglyoxylic acids; Sampling Period: End of turn

Value: 25 g/g creatinine; Medium: Urine

Remark: New Zealand. Biological Exposure Indices

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

Value: 7 g/g creatinine; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

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

Value: 15 g/g creatinine; Medium: Urine Remark: Romania. Biological limit values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: End of turn

Value: 12 mg/L; Medium: Blood

Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure:

after more than one shift Value: 1600 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 986 micromol per litre; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure:

after more than one shift

Value: 10590 micromol per litre; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn

Value: 1067 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn

Value: 799 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 803 mg/g Creatinine; Medium: Urine Remark: Slovakia. Biological Limit Values

Biological Indicator: 2- and 4-ethylphenol; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 744 micromoles per millimole creatinine; Medium: Urine

Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn

Value: 250 mg/g Creatinine; Medium: Urine

Remark: Slovenia. BAT-values

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

Value: 15 g/g creatinine; Medium: Urine

Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Ethylbenzene Medium: Air at the end of exhalation

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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

formaldehyde Biological Indicator: spirometry

CAS: 50-00-0 Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

#### Predicted No Effect Concentration (PNEC) values

Exposure Route: Fresh Water; PNEC Limit: 10.6 mg/l acetone

CAS: 67-64-1

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 21 mg/l

Exposure Route: Marine water; PNEC Limit: 1.06 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 30.4 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 3.04 mg/kg

Exposure Route: Soil; PNEC Limit: 29.5 mg/kg

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

n-butyl acetate

CAS: 123-86-4

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.36 mg/l

Exposure Route: Marine water; PNEC Limit: 0.01 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.18 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

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

Exposure Route: Fresh Water; PNEC Limit: 0.32 mg/l xylene

CAS: 1330-20-7

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

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

Exposure Route: 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

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

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Exposure Route: Marine water sediments; PNEC Limit: 552 mg/kg

Exposure Route: Soil; PNEC Limit: 28 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2251 mg/l

2-butoxyethanol;

ethylene glycol monobutyl

ether

trizinc

CAS: 111-76-2

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 26.4 mg/l

Exposure Route: Marine water; PNEC Limit: 0.88 mg/l

Exposure Route: Fresh Water; PNEC Limit: 8.8 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 34.6 mg/kg dry weight (d.w.) Exposure Route: Marine water sediments; PNEC Limit: 3.46 mg/kg dry weight (d.w.)

Exposure Route: Soil; PNEC Limit: 2.33 mg/kg dry weight (d.w.)

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 436 mg/l

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

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

acetate

CAS: 108-65-6

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 6.35 mg/l

Exposure Route: Marine water; PNEC Limit: 0.064 mg/kg

Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.329 mg/kg

Exposure Route: Soil; PNEC Limit: 0.29 mg/kg

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

formaldehyde

CAS: 50-00-0

Exposure Route: Fresh Water; PNEC Limit: 0.47 mg/l Exposure Route: Marine water; PNEC Limit: 0.47 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 2.44 mg/kg

Exposure Route: Soil; PNEC Limit: 0.21 mg/kg

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

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

CAS: 67-64-1 Consumer: 62 mg/kg

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

Consumer: 62 mg/kg

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

Consumer: 200 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute)

Worker Professional: 2420 mg/m3

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

Worker Professional: 186 mg/kg

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

Worker Professional: 1210 mg/m3

n-butyl acetate Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects CAS: 123-86-4

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

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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.)

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

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

propan-2-ol CAS: 67-63-0 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 89 mg/m3

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

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

Worker Professional: 500 mg/m3

2-butoxyethanol; Expo

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

ethylene glycol monobutyl Consumer: 147 mg/m3 ether

CAS: 111-76-2

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

Consumer: 426 mg/m3

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

Consumer: 26.7 mg/kg dry weight (d.w.)

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

Consumer: 59 mg/m3

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

Consumer: 6.3 mg/kg dry weight (d.w.)

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

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Worker Professional: 246 mg/m3

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

Worker Professional: 1091 mg/m3

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

Worker Professional: 98 mg/m3

trizinc

bis(orthophosphate) CAS: 7779-90-0

Exposure Route: Human Inhalation; Exposure Frequency: Local Effects

Worker Professional: 5 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Worker Professional: 83 ppm

Exposure Route: Human Dermal; Exposure Frequency: Local Effects

Consumer: 83 ppm

Exposure Route: Human Inhalation; Exposure Frequency: Local Effects

Consumer: 2.5 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Chronic Effects

Consumer: 0.83 ppm

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

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

phosphoric acid CAS: 7664-38-2 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 10.7 mg/m3

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

Consumer: 4.57 mg/m3

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

Consumer: 0.1 mg/kg

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

Worker Professional: 1 mg/m3

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

Consumer: 0.36 mg/m3

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

Worker Professional: 2 mg/m3

formaldehyde CAS: 50-00-0 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 9 mg/m3

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

Worker Professional: 9 mg/m3

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

Consumer: 3.2 mg/m3

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

Worker Industry: 0.5 mg/m3

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

Worker Professional: 0.5 mg/m3

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

Consumer: 0.1 mg/m3

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

Worker Industry: 1 mg/m3

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

Worker Professional: 1 mg/m3

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

#### Technical measures to prevent exposure

formaldehyde: E

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A

Hygienic and Technical measures

N.A.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical State: Gas
Colour: Grey
Odour: N.A.
pH: Not Relevant
Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 0 °C (32 °F)

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

Vapour density: N.A. Vapour pressure: N.A. Relative density: 0.76 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: N.A.

Kinematic viscosity m2/s (40°C)

Viscosity:

# 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

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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

b) skin corrosion/irritation Not classified

Based on available data, the classification criteria are not met

The product is classified: Eye Irrit. 2(H319) c) serious eye damage/irritation

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

Not classified g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: STOT SE 3(H336) i) STOT-repeated exposure

Not classified

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

dimethyl ether a) acute toxicity LC50 Inhalation 164000 Ppm acetone a) acute toxicity LD50 Oral Rat = 5800 mg/kg LC50 Inhalation Rat = 76 mg/l 4h LD50 Skin Rabbit > 15800 mg/kg LD50 Oral Rat = 10760 mg/kg**OECD Test Guideline 423** n-butyl acetate a) acute toxicity LC50 Inhalation > 20 mg/l 4h LD50 Skin Rabbit > 14112 mg/kg OECD Test Guideline 402 ethyl acetate a) acute toxicity LD50 Oral Rat = 5620 mg/kg LC50 Inhalation Rat = 56 mg/l 4h

LD50 Skin Rabbit > 18000 mg/kg

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

LD50 Skin Rabbit > 5000 mg/kg

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

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

16/08/2024 **ENERGY LINE FAST FILLER LIGHT GREY** Date Production Name Page n. 19 of 26 Talc (Mg3H2(SiO3)4) a) acute toxicity LD50 Oral > 5000 mg/kg bw

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

LC50 Inhalation Rat > 10000 Ppm 6h

2-butoxyethanol; a) acute toxicity

ethylene glycol monobutyl

ether

ATE - Oral: 1200 mg/kg bw

ATE - Inhalation (Vapours): 3 mg/l

LD50 Oral Rat = 1746 mg/kg OECD Test Guideline 401 LD50 Skin Rabbit > 2000 mg/kg OECD Test Guideline 402

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

LD50 Skin Rabbit > 5000 mg/kg

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

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

hazard

LD50 Skin Rabbit > 5000 mg/kg

2-methoxy-1-methylethyl a) acute toxicity

acetate

LD50 Oral Rat > 5000 mg/kg

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

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

phosphoric acid a) acute toxicity LD50 Oral Rat = 2600 mg/kg

LD50 Skin Rabbit = 2740 mg/kg

formaldehyde a) acute toxicity LD50 Oral Rat = 100 mg/kg

LC50 Inhalation Vapour Rat > 3 mg/l 4h

LD50 Skin Rabbit = 300 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

acetone CAS: 67-64-1 - a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (fathead minnow) =

EINECS: 200- 8120 mg/L 96 H

662-2 - INDEX: 606-001-00-8

a) Aquatic acute toxicity: EC50 Invertebrates Daphnia (water flea) = 8800

mg/L 48 H

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n-butyl acetate	CAS: 123-86-4 -	e) Plant toxicity: NOEC Algae algae = 530 mg/L 8 D a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (fathead minnow) =
	EINECS: 204- 658-1 - INDEX: 607-025-00-1	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 $$
ethyl acetate	CAS: 141-78-6 - EINECS: 205- 500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity: LC50 Fish = 230 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia (water flea) $> 2500$ mg/L 24 H
		e) Plant toxicity: EC50 Algae > 100 mg/L 72 H
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H $$
		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 $72~\mathrm{H}$
propan-2-ol	CAS: 67-63-0 - EINECS: 200- 661-7 - INDEX: 603-117-00-0	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 9640 mg/L 96 H
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) > 10000 mg/L 24 H $$
		e) Plant toxicity: EC50 Algae Scenedesmus quadricauda (Green algae) = 1800 mg/L 7 D
2-butoxyethanol; ethylene glycol monobutyl ether	CAS: 111-76-2 - EINECS: 203- 905-0 - INDEX: 603-014-00-0	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 1474 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 1550 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Pseudokirchneriella subcapitata (green algae) = 911 mg/L 72 H OECD Test Guideline 201
		b) Aquatic chronic toxicity: NOEC Fish Brachydanio rerio > 100 mg/L 21 D OECD Test Guideline 204
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203- 603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 mg/L 96 H

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

500 mg/L 48 H

e) Plant toxicity: EC50 Algae Selenastrum capricornutum (green algae) > 1000 mg/L 96 H

b) Aquatic chronic toxicity: NOEC Fish Oryzias latipes (Japanese medaka) = 47.5 mg/L 14 D

b) Aquatic chronic toxicity: NOEC Invertebrates Daphnia magna (Water flea) >= 100 mg/L 21 D

e) Plant toxicity: NOEC Algae Selenastrum capricornutum (green algae) >= 1000 mg/L 96 H

Carbon black

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

609-9

- EINECS: 215- mg/L 96h

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

phosphoric acid CAS: 7664-38-2 a) Aquatic acute toxicity: LC50 Fish = 75.1 mg/L 96 H

> - EINECS: 231-633-2 - INDEX: 015-011-00-6

> > a) Aquatic acute toxicity: EC50 Invertebrates > 100 mg/L 48 H

e) Plant toxicity: EC50 Algae > 100 mg/L 72 H

# 12.2. Persistence and degradability

N.A.

#### 12.3. Bioaccumulative potential

N.A.

# 12.4. Mobility in soil

#### 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

1950

#### 14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable IATA-Technical name: AEROSOLS, FLAMMABLE

IMDG-Technical name: AEROSOLS

#### 14.3. Transport hazard class(es)

ADR-Class: 2 IATA-Class: 2.1 IMDG-Class: 2

# 14.4. Packing group

ADR-Packing Group: -

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IATA-Packing group: IMDG-Packing group: -

#### 14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No IMDG-EMS: F-D, S-U

# 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 2.1

ADR - Hazard identification number: -

ADR-Special Provisions: 190 327 344 625

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

Air (IATA):

IATA-Passenger Aircraft: 203 IATA-Cargo Aircraft: 203

IATA-Label: 2.1

IATA-Subsidiary hazards: -

IATA-Erg: 10L

IATA-Special Provisions: A145 A167 A802

Sea (IMDG):

IMDG-Stowage Code: SW1 SW22 IMDG-Stowage Note: SG69

IMDG-Subsidiary hazards: See SP63

IMDG-Special Provisions: 63 190 277 327 344 381 959 **14.7. Maritime transport in bulk according to IMO instruments** 

NΑ

#### **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: 40

Restrictions related to the substances contained: 28, 30, 72  $\,$ 

# 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: P3a 150 500

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

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#### German Water Hazard Class.

3: Severe hazard to waters

#### **SVHC Substances:**

No data available

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

Volatile Organic compounds - VOCs = 80.43 % Volatile Organic compounds - VOCs = 611.30 g/L Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 19.57 %

# Storage Class (TRGS 510)

Storage Class (TRGS 510) Aerosols

# Mal-Code (Denmark)

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

3 - 6 m3 air/10 g Administrative determined MAL-1.312 1993

Factors

# **Biocides**

REGULATION (EC) No 528/2012

#### 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

Code	Description			
EUH066	Repeated exposure may cause skin dryness or cracking.			
H220	Extremely flammable gas.			
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if heated.			
H225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
H280	Contains gas under pressure; may explode if heated.			
H290	May be corrosive to metals.			
H301	Toxic if swallowed.			
H302	Harmful if swallowed.			
H304	May be fatal if swallowed and enters airways.			
H311	Toxic in contact with skin.			
H312	Harmful in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.	May cause an allergic skin reaction.		
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H331	Toxic if inhaled.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H336	May cause drowsiness or dizziness.			
H341	Suspected of causing genetic defects.			
H350	May cause cancer.			
H372	Causes damage to organs through prolonged or repeated exposure.			
H373	May cause damage to organs through prolonged or repeated exposure.	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.			
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 3	1		
2.2/1	Flam. Gas 1 Flammable gas, Category 1			
2.3/1	Aerosols 1 Aerosol, Category 1			
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2.5/C	Press Gas (Comp.)	Gases under pressure (Compressed gas)
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), 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
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
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 ${\bf 1}$
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
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
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
2.3/1	On basis of test data
3.3/2	Calculation method
3.8/3	Calculation method
4.1/C3	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

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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 15: Regulatory information

- SECTION 16: Other information

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