# **Safety Data Sheet ACRIFLEX INCOLORE MATT**

Safety Data Sheet dated 12/03/2024 version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: ACRIFLEX INCOLORE MATT

Trade code: L0960204

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

Recommended use: Coatings and paints, thinners, paint removers

Dual compound colourless clearcoat

Liquid solution

Professional uses; Industrial uses Uses advised against: N.A.

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

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

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

# 1.4. Emergency telephone number

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

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

## **SECTION 2: Hazards identification**









# 2.1. Classification of the substance or mixture

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

Flam. Liq. 3 Flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction. STOT SE 3 May cause respiratory irritation.

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

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

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

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

#### Hazard pictograms and Signal Word



Danger

#### **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Date 03/04/2025 **Production Name** ACRIFLEX INCOLORE MATT Page n. 1 of 19 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 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.

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

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

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

to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

#### **Contains**

cyclohexanone

reaction mass of ethylbenzene and mxylene and p-xylene

reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl)propionyl-ω-hydroxypoly (oxyethylene) and α-3- (3-(2Hbenzotriazol-2-yl)- 5-tert-butyl-4hydroxyphenyl)propionyl-ω-3-(3-(2Hbenzotriazol-2-yl)-5-tert-butyl- 4hydroxyphenyl) propionyloxypoly(oxyethylene)

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

#### 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: ACRIFLEX INCOLORE MATT

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥30 - ≤40 %	cyclohexanone	EC:203-631-1 Index:606-010-	Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119453616-35
	reaction mass of ethylbenzene and m-xylene and p-xylene		Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304	01-2119555267-33
≥7 - ≤10 %	silicon dioxide		Substance with a Union workplace exposure limit.	01-2119379499-16

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≥3 - ≤	5 % 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
≥1 - ≤ %	2.5 2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195- 00-7	STOT SE 3, H336; Flam. Liq. 3, H226	01-2119475791-29
≥0.5 - %	reaction mass of α-3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly (oxyethylene) and α-3- (3-(2H-benzotriazol-2-yl)- 5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl- 4-hydroxyphenyl)propionyloxypoly(oxyethylene)	1, 104810-48-2 EC:400-830-7	· Skin Sens. 1A, H317; Aquatic Chronic 2, H411	01-0000015075-76
≥0.5 - %	Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl 4-piperidyl sebacate		Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361f, M-Acute:1	01-2119491304-40-0000
< 0.1 9	% 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

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

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

In case of eyes contact:

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

Protect uninjured eye.

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.

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# 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.

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 Cou Type	y Occupationa	l Exposure Limit
cyclohexanone CAS: 108-94-1	EU	Long Term: 4 Behaviour Ind 2000/39/EC	0.8 mg/m3 - 10 ppm; Short Term: 81.6 mg/m3 - 20 ppm dicative
	EU	Identifies the	possibility of significant uptake through the skin

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EH40 Long Term: 41 mg/m3 - 10 ppm; Short Term: 82 mg/m3 - 20 ppm UNITED

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

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

**BRITAIN AND NORTHERN IRELAND** 

**ACGIH** Long Term: 20 ppm; Short Term: 50 ppm

Skin, A3, BEI - Eye and URT irr

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

2004/37/EC

FII Carcinogens or mutagens

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

> 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** 

n-butyl acetate CAS: 123-86-4

**EH40** UNITED

EU

Long Term: 724 mg/m3 - 150 ppm; Short Term: 966 mg/m3 - 200 ppm

KINGDOM OF **GREAT BRITAIN AND NORTHERN IRELAND** 

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

> Behaviour Indicative 2019/1831/EU

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

Eye and URT irr

2-methoxy-1-methylethyl

acetate

CAS: 108-65-6

Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm

Behaviour Indicative

2000/39/EC

FU Identifies the possibility of significant uptake through the skin

EH40 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

are concerns that dermal absorption will lead to GREAT

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

xylene

CAS: 1330-20-7

**ACGIH** Long Term: 20 ppm

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

**EH40** 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** 

ΕU 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

**Biological limit values** 

cyclohexanone Biological Indicator: 1,2-cyclohexanediol; Sampling Period: End of turn; End of working week CAS: 108-94-1

Value: 50 mg/g Creatinine; Medium: Urine

Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: 1,2-cyclohexanediol; Sampling Period: End of turn; End of working week

Value: 49 mmol/mmol creatinine; Medium: Urine

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Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: End of turn; End of working week

Value: 80 mg/L; Medium: Urine

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

for work

Biological Indicator: Cyclohexanol in urine; Sampling Period: End of turn

Value: 8 mg/L; Medium: Urine

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

for work

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: End of turn; End of working week

Value: 80 mg/L; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Cyclohexanol in urine; Sampling Period: End of turn

Value: 8 mg/L; Medium: Urine

Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: 1,2-cyclohexanediol; Sampling Period: FSL

Value: 80 mg/L; Medium: Urine

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

Biological Indicator: Cyclohexanol in urine; Sampling Period: End of workday

Value: 8 mg/L; Medium: Urine

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

Biological Indicator: total 1,2-cyclohexanediol; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 100 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: total 1,2-cyclohexanediol; Sampling Period: Immediately after exposure or after

working hours

Value: 86 Millimoles per liter; Medium: Urine

Remark: Svizzera. Lista di valori BAT

Biological Indicator: total cyclohexanol; Sampling Period: In case of long-term exposure: after more than

one shift

Value: 12 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: total cyclohexanol; Sampling Period: Immediately after exposure or after working

hours

Value: 12 Millimoles per liter; Medium: Urine

Remark: Svizzera. Lista di valori BAT

Biological Indicator: Cyclohexanol in urine; Sampling Period: After shift

Value: 2 Millimoles per mole Creatinine; Medium: Urine Remark: UK. Biological monitoring guidance values

Biological Indicator: 1,2-Cyclohexanediol; Sampling Period: End of turn; End of working week

Value: 80 mg/L; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Cyclohexanol in urine; Sampling Period: End of turn

Value: 8 mg/L; Medium: Urine

Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: 1,2-cyclohexanediene; Sampling Period: End of workday at end of workweek

Value: 80 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits

Biological Indicator: Cyclohexanol in urine; Sampling Period: End of workday

Value: 8 mg/L; Medium: Urine Remark: VE.Biological Exposure Limits

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

Sampling Period: Immediately after exposure or after working hours

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

Sampling Period: Immediately after exposure or after working hours

xylene Biological Indicator: xylene; Sampling Period: End of turn

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

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Remark: New Zealand. Biological Exposure Indices

Biological Indicator: xylene; Sampling Period: End of turn

Value: 1.5 mg/L; Medium: Blood Remark: Slovakia. Biological Limit Values

Biological Indicator: sum of 2,3,4-methylhippuric acid; Sampling Period: End of turn

Value: 2000 mg/L; Medium: Urine Remark: Slovakia. Biological Limit Values

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

Value: 3 g/l; Medium: Urine

Remark: Romania. Biological limit values

Biological Indicator: methylhippuric acid (all isomers); Sampling Period: End of turn

Value: 2 g/l; Medium: Urine Remark: Slovenia. BAT-values

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

Value: 1.5 mg/L; Medium: Blood

Remark: TRGS 903 - Biological limit values

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

after working hours

Value: 2 g/l; Medium: Urine

Remark: TRGS 903 - Biological limit values

Biological Indicator: Methylhippuric acid; Sampling Period: Last 4 hours of shift

Value: 2 mg/L; Medium: Urine

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

Biological Indicator: total (o-, m-, p-)methylhippuric acid; Sampling Period: End of turn; End of working

week

Value: 800 mg/L; Medium: Urine

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

Biological Indicator: methyl hippuric acid; Sampling Period: At the end of a work week / at the end of a

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

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

# Predicted No Effect Concentration (PNEC) values

Exposure Route: Freshwater sediments; PNEC Limit: 0.033 mg/l cyclohexanone

CAS: 108-94-1

Exposure Route: Marine water; PNEC Limit: 0.003 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.329 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Soil; PNEC Limit: 0.014 mg/kg

reaction mass of ethylbenzene and mxylene and p-xylene

Exposure Route: Marine water; PNEC Limit: 0.25 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 14.33 mg/kg

Exposure Route: Soil; PNEC Limit: 2.41 mg/kg

CAS: 123-86-4

Exposure Route: Fresh Water; PNEC Limit: 0.18 mg/l n-butyl acetate

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

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

Exposure Route: Freshwater sediments; PNEC Limit: 0.98 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.09 mg/kg

Exposure Route: Soil; PNEC Limit: 0.09 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 35.6 mg/l

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

acetate

CAS: 108-65-6

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

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

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

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

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

reaction mass of a-3-(3- Exposure Route: Fresh Water; PNEC Limit: 0.0023 mg/l

reaction mass of α-3-(3-(2H-benzotriazol- 2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly (oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl- 4-hydroxyphenyl)propionyloxypoly (oxyethylene) CAS: 104810-47-1,

104810-48-2

Exposure Route: Marine water; PNEC Limit: 0.00023 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.028 mg/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 3.06 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.306 mg/kg

Exposure Route: Soil; PNEC Limit: 2 mg/kg

Reaction mass of Bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate CAS: 1065336-91-5

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

Exposure Route: Fresh Water; PNEC Limit: 0.002 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 0.009 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.05 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.11 mg/kg

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

Exposure Route: Microorganisms in sewage treatments; PNEC Limit:  $1\ mg/l$ 

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

CAS: 1330-20-7

xylene

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

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

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cyclohexanone CAS: 108-94-1

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

Consumer: 1.5 mg/kg

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

Consumer: 1.5 mg/kg

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

Consumer: 40 mg/m3

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

Consumer: 20 mg/m3

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

Consumer: 20 mg/m3

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

Consumer: 10 mg/m3

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

Consumer: 1 mg/kg

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

Consumer: 1 mg/kg

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

Worker Professional: 80 mg/m3

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

Worker Professional: 80 mg/m3

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

Worker Professional: 40 mg/m3

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

Worker Professional: 40 mg/m3

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

Worker Professional: 4 mg/kg

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

Worker Professional: 4 mg/kg

reaction mass of ethylbenzene and mxylene and p-xylene Exposure Route: Human Inhalation Worker Professional: 221 mg/m3

Exposure Route: Human Inhalation Worker Professional: 442 mg/m3

Exposure Route: Human Dermal Worker Professional: 3182 mg/kg

Exposure Route: Human Inhalation

Consumer: 65.3 mg/m3

Exposure Route: Human Inhalation

Consumer: 260 mg/m3

Exposure Route: Human Dermal

Consumer: 1872 mg/kg

Exposure Route: Oral Consumer: 12.5 mg/kg

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.)

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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.)

2-methoxy-1-methylethy 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

reaction mass of a-3-(3- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects (2H-benzotriazol- 2-yl)-5- Worker Professional: 0.35 mg/m3

reaction mass of d-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly (oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly (oxyethylene)
CAS: 104810-47-1, 104810-48-2

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 0.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 0.085 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 0.25 mg/kg

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

Consumer: 0.025 mg/kg

Reaction mass of Bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1.27 mg/m3

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piperidyl sebacate CAS: 1065336-91-5

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

Worker Industry: 1.8 mg/kg

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

Consumer: 0.31 mg/m3

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

Consumer: 0.9 mg/kg

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

Consumer: 0.18 mg/kg

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

CAS: 1330-20-7 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

#### 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 respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: Colourless Odour: N.A. pH: Not Relevant

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

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: 27 °C (81 °F)

Lower and upper explosion limit: N.A.

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

Density and/or relative density: 1.03 g/cm3

Solubility in water: N.A. Solubility in oil: N.A.

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

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

Flammability: The product is classified Flam. Liq. 3 H226 Kinematic viscosity m2/s ( $40^{\circ}$ C) > 20,5 mm2/sec ( $40^{\circ}$ C)

Viscosity: = 59.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

Particle characteristics:

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Particle size: N.A.

9.2. Other information

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

No other relevant information

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Data not available.

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

## 10.6. Hazardous decomposition products

None.

## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Toxicological Information of the Preparation** 

b) skin corrosion/irritationc) serious eye damage/irritation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral: 5311.48 mg/kg bw ATEmix - Dermal: 2178.22 mg/kg bw

ATEmix - Inhalation (Vapours): 21.7822 mg/l The product is classified: Skin Irrit. 2(H315) The product is classified: Eye Dam. 1(H318)

d) respiratory or skin sensitisation  $\,$  The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: STOT SE 3(H335) i) STOT-repeated exposure The product is classified: STOT RE 2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

cyclohexanone a) acute toxicity LD50 Oral Rat = 1620 mg/kg bw

LC50 Inhalation Rat > 6.2 mg/l 4h

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

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

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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

Reaction mass of Bis(1,2,2,6,6a) acute toxicity

LD50 Oral Rat = 3230 mg/kg

pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate

LD50 Skin Rat = 3170 mg/kg

reaction mass of a-3-(3- a) acute toxicity (2H-benzotriazol- 2-yl)-5LD50 Oral Rat > 5000 mg/kg

**OECD Test Guideline 401** 

tert-butyl-4hydroxyphenyl)propionyl- $\omega$ -hydroxypoly (oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl- 4hydroxyphenyl) propionyloxypoly

(oxyethylene)

LC50 Inhalation Rat = 5.8 mg/l 4h **OECD Test Guideline 403** 

LD50 Skin > 2000 mg/kg OECD Test Guideline 402

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

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

# 11.2. Information on other hazards

#### **Endocrine disrupting properties:**

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

# **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

2-methoxy-1-methylethyl acetate CAS: 108-65-6 - a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) 100 EINECS: 203mg/L 96 H

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- 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

reaction mass of a-3-(3-(2Hbenzotriazol- 2-yl)-5-tert-butyl-4hydroxyphenyl)propionyl-ωhydroxypoly (oxyethylene) and a- 400-830-7 -3- (3-(2H-benzotriazol-2-yl)- 5tert-butyl-4hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tertbutyl- 4-hydroxyphenyl) propionyloxypoly(oxyethylene)

CAS: 104810-47-1, 104810-48-2 - EINECS: INDEX: 607-176-00-3

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.8 mg/L 96 H

- a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 4 mg/L 48 H
- e) Plant toxicity: EC50 Algae Pseudokirchneriella subcapitata (green algae) > 100 mg/L 72 H
- e) Plant toxicity: EC10 Algae Pseudokirchneriella subcapitata (green algae) = 10 mg/L 72 H

CAS: 1065336-Reaction mass of Bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate 91-5 - EINECS: and Methyl 1,2,2,6,6-pentamethyl- 915-687-0 4-piperidyl sebacate

- e) Plant toxicity: EC50 Algae Desmodesmus subspicatus (green algae) = 1.68 mg/L 72 H
- a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio (zebrafish) = 0.9 mg/L
- a) Aquatic acute toxicity: NOEC Invertebrates Daphnia magna = 1 mg/L 21 Davs

xylene

- EINECS: 215-535-7 - INDEX: 601-022-00-9

- CAS: 1330-20-7 a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
  - a) Aquatic acute toxicity: IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H
  - e) Plant toxicity: ECO Algae Pseudokirchneriella subcapitata (green algae) = 0.44 mg/L 72 H
  - b) Aquatic chronic toxicity: NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1.3 mg/L 56 D
  - e) Plant toxicity: Algae Pseudokirchneriella subcapitata (green algae) = 4.36 mg/L 72 H

# 12.2. Persistence and degradability

N.A.

#### 12.3. Bioaccumulative potential

N.A.

# 12.4. Mobility in soil

NΑ

#### 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

# 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

N.A.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

1263

## 14.2. UN proper shipping name

14.3. Transport hazard class(es)
ADR-Class: 3

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

IATA-Class: 3
IMDG-Class: 3

14.4. Packing group

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

#### 14.5. Environmental hazards

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 0.00

Marine pollutant: No Environmental Pollutant: No IMDG-EMS: F-E, <u>S-E</u>

# 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: - ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355 IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

# 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)

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Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
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Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2020/878

# Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 70, 75

#### Provisions related to directive EU 2012/18 (Seveso III):

# Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: P5c 5000 50000

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

No substances listed

#### German Water Hazard Class.

3: Severe hazard to waters

# German Lagerklasse according to TRGS 510:

LGK 3

## **SVHC Substances:**

No SVHC substances present in concentration >= 0.1%

# DIRECTIVE 2010/75/EU (VOC directive)

Volatile Organic compounds - VOCs = 56.96 % Volatile Organic compounds - VOCs = 586.74 g/L Estimated Total Content of Water 0.00 % Estimated Total Solid Content 43.04 %

# Classification according to VbF

Classification according to VbF Exempt

# Mal-Code (Denmark)

Mal-Code (Denmark) Mal Factor Unit of Measure Revision Status / Number Regulatory Base
4 - 5 2.267 m3 air/10 g 1993 Administrative determined MAL-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.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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11332	Harrillar il Illiaica.		
H335	May cause respiratory irritation.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H361f	Suspected of damaging fertility.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Code	Hazard class and hazard category	Description	
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	
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4	
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1	
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	
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A	
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/A1	Aquatic Acute 1	Acute aquatic hazard, category 1	
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1	
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2	
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3	
Classification		ification for mixtures according to Begulation (EC) 1373/300	

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1A, H317	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

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

Main bibliographic sources:

H318

H319

H332

Causes serious eye damage.

Causes serious eye irritation.

Harmful if inhaled.

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

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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

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

CSR: Chemical Safety Report

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 4: First aid measures
- SECTION 6: Accidental release measures
- 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

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- SECTION 14: Transport information

- SECTION 15: Regulatory information

- SECTION 16: Other information

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