## **Safety Data Sheet MACROFAN UHS SPEEDY ACCELERATOR**

Safety Data Sheet dated 10/10/2023 version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: MACROFAN UHS SPEEDY ACCELERATOR

Trade code: L0MT0167

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

Recommended use: Coatings and paints, thinners, paint removers

Coating additive Liquid solution

Professional uses

Uses advised against: N.A.

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

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

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

## 1.4. Emergency telephone number

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

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

## **SECTION 2: Hazards identification**









## 2.1. Classification of the substance or mixture

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

Flam. Liq. 3 Flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1A May cause an allergic skin reaction. Muta. 2 Suspected of causing genetic defects. Repr. 1B May damage fertility or the unborn child.

STOT SE 2 May cause damage to organs. STOT SE 3 May cause drowsiness or dizziness.

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

Asp. Tox. 1 May be fatal if swallowed and enters airways. Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

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

#### Hazard pictograms and Signal Word

03/04/2025



Danger

#### **Hazard statements**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P201	Obtain special instructions before use.	

P202 Do not handle until all safety precautions have been read and understood.

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

P273 Avoid release to the environment.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

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

P391 Collect spillage.

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

#### **Contains**

n-butyl acetate

ethylene bis(3-mercaptopropionate)

xylene

dibutyltin dilaurate

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

ethylene di(S-thioacetate)

pentaerythritol tetrakis(3-mercaptopropionate)

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

Restricted to professional users.

#### 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: MACROFAN UHS SPEEDY ACCELERATOR

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

Qty Name Ident. Numb. Classification Registration Number

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≥55 - ≤60 %	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
≥15 - ≤20 %	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
≥15 - ≤20 %	2-butoxyethyl acetate	CAS:112-07-2 EC:203-933-3 Index:607-038- 00-2	Acute Tox. 4, H302; Acute Tox. 4, H332; Acute Tox. 4, H312	01-2119475112-47
≥3 - ≤5 %	ethylene bis(3- mercaptopropionate)	CAS:22504-50-3 EC:245-044-3	Acute Tox. 4, H302; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2120775145-52
≥1 - ≤2.5 %	dibutyltin dilaurate	CAS:77-58-7 EC:201-039-8 Index:050-030- 00-3	STOT SE 1, H370; STOT RE 1, H372; Skin Sens. 1, H317; Eye Irrit. 2, H319; Muta. 2, H341; Repr. 1B, H360FD; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1	01-2119496068-27
≥1 - ≤2.5 %	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
≥0.3 - ≤0.5 %	ethylene di(S-thioacetate)	CAS:123-81-9 EC:204-653-4	Acute Tox. 4, H302; Acute Tox. 4, H332; Acute Tox. 4, H312; Eye Irrit. 2, H319; Skin Sens. 1A, H317; STOT SE 3, H335	01-2120775150-61
≥0.1 - ≤0.25 %	pentaerythritol tetrakis(3-mercaptopropionate)	CAS:7575-23-7 EC:231-472-8	Acute Tox. 4, H302; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M- Chronic:10, M-Acute:10	01-2119486981-23
≥0.1 - ≤0.25 %	bis(isopropyl)naphthalene	CAS:38640-62-9 EC:254-052-6	Asp. Tox. 1, H304; Aquatic Chronic 1, H410	: 01-2119565150-48-0000

## **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

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).

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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

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

Extinguishing media which must not be used for safety reasons:

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

## 5.3. Advice for firefighters

Use suitable breathing apparatus.

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

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

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

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

Exercise the greatest care when handling or opening the container.

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

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

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °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 Country Occupational Exposure Limit
Type

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

CAS: 123-86-4 KINGDOM OF **GREAT NORTHERN** 

**BRITAIN AND IRELAND** 

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

Behaviour Indicative

2019/1831/EU

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

Eye and URT irr

xylene CAS: 1330-20-7 **ACGIH** Long Term: 20 ppm

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

EH40 UNITED 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

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

**BRITAIN AND NORTHERN IRELAND** 

FU 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

2-butoxyethyl acetate CAS: 112-07-2

**ACGIH** Long Term: 20 ppm

A3 - Hemolysis

Long Term: 133 mg/m3 - 20 ppm; Short Term: 332 mg/m3 - 50 ppm **EH40** 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** 

EU Long Term: 133 mg/m3 - 20 ppm; Short Term: 333 mg/m3 - 50 ppm

Behaviour Indicative

2000/39/EC

ΕU Identifies the possibility of significant uptake through the skin

dibutyltin dilaurate

FH40 UNITED Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 CAS: 77-58-7

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: 0.1 mg/m3 **ACGIH** Short Term: 0.2 mg/m3

LEC-TD-95133

**Biological limit values** 

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

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

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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

2-butoxyethyl acetate CAS: 112-07-2

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: In case of long-term exposure: after more

than one shift

Value: 200 mg/L; 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: total butoxy acetic acid; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 200 mg/L; Medium: Urine Remark: Svizzera. Lista di valori BAT

Biological Indicator: total butoxy acetic acid; Sampling Period: In case of long-term exposure: after more

than one shift

Value: 15134 micromol per litre; Medium: Urine

Remark: Svizzera. Lista di valori BAT

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

ours

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

Biological Indicator: 2-butoxy acetic acid; Sampling Period: In case of long-term exposure: after more than

one shift

Value: 7567 micromol per litre; Medium: Urine

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Remark: Svizzera. Lista di valori BAT

Sampling Period: Immediately after exposure or after working hours
Sampling Period: In case of long-term exposure: after more than one shift

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

n-butyl acetate CAS: 123-86-4

Exposure Route: Fresh Water; PNEC Limit: 0.18 mg/l

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

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

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

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

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

xylene

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

CAS: 1330-20-7

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

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

Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg

Exposure Route: Soil; PNEC Limit: 2.31 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l

2-butoxyethyl acetate CAS: 112-07-2

Exposure Route: Fresh Water; PNEC Limit: 0.304 mg/l

Exposure Route: Marine water; PNEC Limit: 0.03 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 2.03 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.203 mg/kg

Exposure Route: Soil; PNEC Limit: 0.415 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 90 mg/l

dibutyltin dilaurate

CAS: 77-58-7

Exposure Route: Fresh Water; PNEC Limit: 0.463 µg/L

Exposure Route: Freshwater sediments; PNEC Limit: 0.05  $\mu\text{g/L}$ 

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 4.63 µg/L

Exposure Route: Marine water; PNEC Limit: 0.0463 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0.005 mg/kg

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

Exposure Route: Soil; PNEC Limit: 0.0407 mg/kg

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

Reaction mass of Bis(1,2,2,6,6-

pentamethyl-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: 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

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

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

Worker Industry: 300 mg/m3

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

Worker Industry: 600 mg/m3

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

Worker Industry: 300 mg/m3

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Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Industry: 600 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Industry: 11 mg/kg dry weight (d.w.)

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 35.7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 300 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 35.7 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 300 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 6 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 2 mg/kg dry weight (d.w.)

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 2 mg/kg dry weight (d.w.)

xylene CAS: 1330-20-7 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 65.3 mg/m3

Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 12.5 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 442 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 212 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 221 mg/m3

2-butoxyethyl acetate CAS: 112-07-2

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Consumer: 200 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 72 mg/kg

Exposure Route: Oral; Exposure Frequency: Short Term, systemic effects Consumer: 36 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 80 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 102 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 333 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 133 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 169 mg/kg

dibutyltin dilaurate CAS: 77-58-7 Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.0031 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Consumer: 0.5 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 0.16 mg/kg

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

Consumer: 0.02 mg/kg

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

Worker Professional: 0.43 mg/kg

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

Worker Professional: 2.05 mg/kg

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

Consumer: 0.0046 mg/m3

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

Consumer: 0.04 mg/m3

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

Worker Professional: 0.02 mg/m3

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

Worker Professional: 0.059 mg/m3

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

piperidyl sebacate CAS: 1065336-91-5

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

Worker Industry: 1.27 mg/m3

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

## 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: Liquid Colour: Colourless Odour: N.A. pH: Not Relevant

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

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

Flash point: 23°C / 60°C

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

Vapour density: N.A. Vapour pressure: N.A. Relative density: 0.90 g/cm3

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

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

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

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

Viscosity: = 14.00 s - Method: ASTM D 1200 82 - Section: 3.00 mm

**Particle characteristics:** 

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** 

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral: 6791.32 mg/kg bw ATEmix - Dermal: 3933.25 mg/kg bw

ATEmix - Inhalation (Vapours): 34.2679 mg/l The product is classified: Skin Irrit. 2(H315)

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

e) germ cell mutagenicity The product is classified: Muta. 2(H341)

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Repr. 1B(H360)

h) STOT-single exposure The product is classified: STOT SE 2(H371), STOT SE 3(H336)

i) STOT-repeated exposure The product is classified: STOT RE 2(H373) j) aspiration hazard The product is classified: Asp. Tox. 1(H304)

## Toxicological information on main components of the mixture:

n-butyl acetate a) acute toxicity LD50 Oral Rat = 10760 mg/kg OECD Test Guideline 423

LC50 Inhalation > 20 mg/l 4h

LD50 Skin Rabbit > 14112 mg/kg OECD Test Guideline 402

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

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

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2-butoxyethyl acetate	a) acute toxicity	LD50 Oral Rat = 1880 mg/kg	
		ATE Skin = 1100 mg/kg	Converted acute toxicity pestimate
		LD50 Skin Rabbit = 1500 mg/kg	
		LC0 Inhalation Rat = 400 Ppm 4h	
dibutyltin dilaurate	a) acute toxicity	LD50 Oral Rat = 2071 mg/kg	OECD Test Guideline 401
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate		LD50 Oral Rat = 3230 mg/kg	
		LD50 Skin Rat = 3170 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:

Toxic to aquatic life with long lasting effects.

## List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

# List of Eco-Toxicological properties of the components

List of Eco-Toxicological p	-	
Component	Ident. Numb.	Ecotox Data
n-butyl acetate	CAS: 123-86-4 - EINECS: 204- 658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas (fathead minnow) = 18 mg/L 96 H OECD Test Guideline 203
		a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 44 mg/L 48 H OECD Test Guideline 202
		e) Plant toxicity : EC50 Algae Selenastrum capricornutum (green algae) = 397 mg/L 72 H OECD Test Guideline 201
		c) Bacteria toxicity : IC50 Microorganisms Tetrahymena pyriformis = 356 mg/L 40 H $$
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss (rainbow trout) = 2.6 mg/L 96 H
		a) Aquatic acute toxicity : IC50 Invertebrates Daphnia magna (Water flea) = 1 mg/L 24 H $$
		e) Plant toxicity : ECO Algae Pseudokirchneriella subcapitata (green algae) = $0.44 \text{ mg/L } 72 \text{ H}$
		b) Aquatic chronic toxicity : NOEC Fish Oncorhynchus mykiss (rainbow trout) > 1.3 mg/L 56 D
		e) Plant toxicity : Algae Pseudokirchneriella subcapitata (green algae) = $4.36$ mg/L $72~\mathrm{H}$
2-butoxyethyl acetate	CAS: 112-07-2 - EINECS: 203- 933-3 - INDEX: 607-038-00-2	a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = 145 mg/L 24 H

e) Plant toxicity: EC50 Algae = 1570 mg/L 72 H

a) Aquatic acute toxicity: LC50 Fish = 20 mg/L 96h

dibutyltin dilaurate a) Aquatic acute toxicity: EC50 Invertebrates Daphnia magna (Water flea) = CAS: 77-58-7 -

0.463 mg/L 48 H EINECS: 201-

039-8 - INDEX:

050-030-00-3

e) Plant toxicity: EC50 Algae Desmodesmus subspicatus (green algae) = 1 mg/L 72 H

Reaction mass of Bis(1,2,2,6,6e) Plant toxicity: EC50 Algae Desmodesmus subspicatus (green algae) = 1.68 CAS: 1065336pentamethyl-4-piperidyl) sebacate 91-5 - EINECS: mg/L 72 H

and Methyl 1,2,2,6,6-pentamethyl- 915-687-0

4-piperidyl sebacate

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

Days

#### 12.2. Persistence and degradability

## 12.3. Bioaccumulative potential

NΑ

#### 12.4. Mobility in soil

NΔ

#### 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

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

## 13.1. Waste treatment methods

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

## **SECTION 14: Transport information**

## 14.1. UN number or ID number

1263

#### 14.2. UN proper shipping name

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

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

ADR-Class: 3 TATA-Class: 3 IMDG-Class: 3 14.4. Packing group

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

## 14.5. Environmental hazards

Most important toxic component: ethylene bis(3-mercaptopropionate)

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 6.66

Marine pollutant: Yes Environmental Pollutant: Yes IMDG-EMS: F-E, S-E

#### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: ADR-Label: 3

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

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

Air (IATA):

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

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

#### 14.7. Maritime transport in bulk according to IMO instruments

N.A

## **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

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

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2020/878

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

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 30, 75

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

## Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes)

to Annex 1, part 1

Product belongs to category: P5c 5000 50000

Product belongs to category: E2 200 5000

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

#### Substances listed in Annex V to the PIC regulation:

No substances listed

## Substances listed in Annex I to the PIC regulation:

dibutyltin dilaurate Part 1

#### German Water Hazard Class.

3: Severe hazard to waters

## **SVHC Substances:**

No data available

## **DIRECTIVE 2010/75/EU (VOC directive)**

Volatile Organic compounds - VOCs = 93.34 % Volatile Organic compounds - VOCs = 835.39 g/L Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 6.66 %

## Storage Class (TRGS 510)

Storage Class (TRGS 510) Flammable liquid substances

## Classification according to VbF

Classification according to VbF A II - Flash point 21 °C to 55 °C, at 15 °C not miscible in water

## Mal-Code (Denmark)

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

5 - 6 3.330 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 airway	s.	
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H341	Suspected of causing genetic defects.		
H360	May damage fertility or the unborn child.		
H360FD	May damage fertility. May damage the unbo	orn child.	
H361f	Suspected of damaging fertility.		
H370	Causes damage to organs (thymus).		
H371	May cause damage to organs.		
H372	Causes damage to organs (thymus) through prolonged or repeated exposure.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting 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	
3.3/2	Eye Irrit. 2	Eye irritation, Category 2	
2.4.2/4		Cl. C ''' '' C '	

Skin Sensitisation, Category 1

3.4.2/1

Skin Sens. 1

3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category ${f 1}$
3.8/2	STOT SE 2	Specific target organ toxicity — single exposure, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category ${f 1}$
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/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 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
2.6/3	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method
3.5/2	Calculation method
3.7/1B	Calculation method
3.8/2	Calculation method
3.8/3	Calculation method
3.9/2	Calculation method
3.10/1	Calculation method
4.1/C2	Calculation method

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

Main bibliographic sources:

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

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

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

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

This MSDS cancels and replaces any preceding release.

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

ACGIH: American Conference of Governmental Industrial Hygienists

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

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

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

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 8: Exposure controls/personal protection

- SECTION 9: Physical and chemical properties

- SECTION 11: Toxicological information

- SECTION 12: Ecological information

- SECTION 14: Transport information

- SECTION 15: Regulatory information

- SECTION 16: Other information

03/04/2025