# Safety Data Sheet MACROFAN POWER FILLER ADDITIVE

Safety Data Sheet dated 13/02/2024 version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: MACROFAN POWER FILLER ADDITIVE

Trade code: L0MT0600

#### 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 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)

Flam. Liq. 3 Flammable liquid and vapour.

Acute Tox. 4 Harmful in contact with skin.

Acute Tox. 4 Harmful if inhaled.

Skin Corr. 1C Causes severe skin burns and eye damage.

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.

Asp. Tox. 1 May be fatal if swallowed and enters airways.

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

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

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

## **Hazard pictograms and Signal Word**



Danger

## **Hazard statements**

H226 Flammable liquid and vapour.

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
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	Keen away from heat	t hot surfaces snarks	, open flames and other ignition sources.	No smokina
1 2 1 0	recep away mom mea	t, flot saffaces, sparks	, open names and other ignition sources.	NO SITIORITY.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P35 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

8 to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/...

P331 Do NOT induce vomiting.

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

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

#### **Contains**

1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2methylpropylidene)amino] cyclohexanemethylamine

xylene

#### 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

Otv

Mixture identification: MACROFAN POWER FILLER ADDITIVE

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

%  EC:215-535-7 Index:601-022- 00-9 STOT RE H304; A STOT SE  ≥30 - ≤40 1,3,3-trimethyl-N-(2- methylpropylidene)-5-[(2- methylpropylidene)amino] cyclohexanemethylamine  < 0.1 % Quaternary ammonium compounds, C12-14 (even- numbered)-alkylethyldimethyl,  EC:215-535-7 Index:601-022- Irrit. 2, I STOT RE H304; A STOT SE  EC:259-393-4 H319; S EC:939-607-9 Acute To H311; S Dam. 1,	sincation Registration Number	
% methylpropylidene)-5-[(2- EC:259-393-4 H319; S methylpropylidene)amino] cyclohexanemethylamine  < 0.1 % Quaternary ammonium EC:939-607-9 Acute To compounds, C12-14 (evennumbered)-alkylethyldimethyl, Dam. 1,	Liq. 3, H226; Acute Tox. 4, 01-2119488216-32 ; Acute Tox. 4, H312; Skin 2, H315; Eye Irrit. 2, H319; RE 2, H373; Asp. Tox. 1, ; Aquatic Chronic 3, H412; SE 3, H335	
compounds, C12-14 (even-H311; S numbered)-alkylethyldimethyl, Dam. 1,	Corr. 1C, H314; Eye Irrit. 2, 01-2119978283-28-0000 ); Skin Sens. 1A, H317	
city, saiphaces	e Tox. 4, H302; Acute Tox. 3, 01-2119977130-42 .; Skin Corr. 1C, H314; Eye . 1, H318; Aquatic Acute 1, ); Aquatic Chronic 1, H410, M-	

Classification

Pegistration Number

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

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

If breathing is irregular or stopped, administer artificial respiration.

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

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

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

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

## 5.1. Extinguishing media

Suitable extinguishing media:

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

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

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

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

#### For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

#### For emergency responders:

Wear personal protection equipment.

#### 6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

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

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

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

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

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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

#### 7.1. Precautions for safe handling

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

Use localized ventilation system.

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

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

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### Advice on general occupational hygiene:

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

Always keep in a well ventilated place.

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

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

#### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Community Occupational Exposure Limits (OEL)**

	OEL Type	Country	Occupational Exposure Limit
xylene CAS: 1330-20-7	ACGIH		Long Term: 20 ppm A4, BEI - URT and eye irr; hematologic eff; CNS impair
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to
	EU		Long Term: 221 mg/m3 - 50 ppm; Short Term: 442 mg/m3 - 100 ppm Behaviour Indicative 2000/39/EC
	EU		Identifies the possibility of significant uptake through the skin

## **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

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

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: Fresh Water; PNEC Limit: 0.023 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

1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-

methylpropylidene) amino]

cyclohexanemethylamine CAS: 54914-37-3

Exposure Route: Fresh Water; PNEC Limit: 0.06 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.0524 mg/kg Exposure Route: Freshwater sediments; PNEC Limit: 5.78 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.0023 mg/l Exposure Route: Marine water; PNEC Limit: 0.0006 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 0.578 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.00524 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.18 mg/l

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Exposure Route: Soil; PNEC Limit: 1.12 mg/kg Exposure Route: Soil; PNEC Limit: 0.00502 mg/kg

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

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

1,3,3-trimethyl-N-(2methylpropylidene)-5Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Professional: 150 mg/m3

[(2-

methylpropylidene)

amino]

cyclohexanemethylamine

CAS: 54914-37-3

#### 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.

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

Flash point: 27.5 °C (81.5 °F) Lower and upper explosion limit: N.A.

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

Density and/or relative density: 0.88 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. Lig. 3 H226 Kinematic viscosity m2/s (40°C) <= 20,5 mm2/sec (40 °C)

Viscosity: = 15.00 s - Method: ASTM D 1200 82 - Section: 3.00 mm

**Particle characteristics:** 

Particle size: N.A.

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#### 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 The product is classified: Acute Tox. 4(H312), Acute Tox. 4(H332)

ATEmix - Dermal: 1610.72 mg/kg bw

ATEmix - Inhalation (Vapours): 16.1072 mg/l b) skin corrosion/irritation The product is classified: Skin Corr. 1C(H314) c) serious eye damage/irritation 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) The product is classified: Asp. Tox. 1(H304) j) aspiration hazard

Toxicological information on main components of the mixture:

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

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

LD50 Oral Rat = 4150 mg/kg

methylpropylidene)-5-

1,3,3-trimethyl-N-(2a) acute toxicity

[(2methylpropylidene)

aminol

sulphates

cyclohexanemethylamine

**OECD Test Guideline 401** 

**OECD Test Guideline 402** 

OECD Test Guideline 401 a) acute toxicity LD50 Oral Rat > 570 mg/kg

LD50 Skin Rat > 5000 mg/kg

Quaternary ammonium compounds, C12-14 (even-numbered)alkylethyldimethyl, ethyl

LD50 Skin Rabbit = 528 mg/kg OECD Test Guideline 402

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#### 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
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 $72~\mathrm{H}$
1,3,3-trimethyl-N-(2- methylpropylidene)-5-[(2- methylpropylidene)amino] cyclohexanemethylamine	CAS: 54914-37- 3 - EINECS: 259-393-4	a) Aquatic acute toxicity : LC50 Fish Danio rerio (zebra fish) $> 100 \text{ mg/L} 96 \text{ H}$
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = $14.7 \text{ mg/L} 48 \text{ H}$
		e) Plant toxicity: Algae Desmodesmus subspicatus (green algae) > 100 mg/L
		b) Aquatic chronic toxicity: NOEC Invertebrates Daphnia magna (Water flea) = 3 mg/L 21 D
		e) Plant toxicity : NOEC Algae Desmodesmus subspicatus (green algae) = $7.6 $ mg/L
Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates	EINECS: 939- 607-9	a) Aquatic acute toxicity : LC50 Fish Danio rerio (zebra fish) = $13.8 \text{ mg/L} 96 \text{ H}$
		a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = $0.036 \text{ mg/L } 48 \text{ H}$
		e) Plant toxicity: EC50 Algae algae = 0.14 mg/L 72 H
		Pimephales promelas (fathead minnow) = 0.032 mg/L 35 D
		b) Aquatic chronic toxicity : EC10 Invertebrates Daphnia magna (Water flea) = 0.0068 mg/L 21 D $$

#### 12.2. Persistence and degradability

N.A

## 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

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

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#### 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

3469

#### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE IATA-Technical name: PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE IMDG-Technical name: PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE

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

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

#### 14.4. Packing group

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

#### 14.5. Environmental hazards

Toxic ingredients quantity: 0.00 Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-C

#### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt:

ADR-Label: 3 + 8

ADR - Hazard identification number: 38

ADR-Special Provisions: 163 367

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

## Air (IATA):

IATA-Passenger Aircraft: 354 IATA-Cargo Aircraft: 365 IATA-Label: 3 + 8

IATA-Subsidiary hazards: 8

IATA-Erg: 3C

IATA-Special Provisions: A3 A72 A192 A803

Sea (IMDG):

IMDG-Stowage Code: Category A SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: 8

IMDG-Special Provisions: 163 223 367

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

N.A.

#### **SECTION 15: Regulatory information**

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

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

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

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: 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

50000 Product belongs to category: P5c 5000

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

No substances listed

#### German Water Hazard Class.

2: Hazard to waters

## German Lagerklasse according to TRGS 510:

IGK 3

#### **SVHC Substances:**

No SVHC substances present in concentration >= 0.1%

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

Volatile Organic compounds - VOCs = 68.33 % Volatile Organic compounds - VOCs = 601.31 g/L Estimated Total Content of Water 0.00 %

Estimated Total Solid Content 31.67 %

## Classification according to VbF

Classification according to VbF Exempt

#### Mal-Code (Denmark)

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

5 - 5 3.418 m3 air/10 g 1993 Administrative determined MAL-

Factors

#### **Biocides**

Date

REGULATION (EC) No 528/2012

04/09/2024

## 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

Code	Description
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

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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.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting ef	fects.	
Code	Hazard class and hazard category	Description	
2 6/3	Flam Lig 3	Flammable liquid Category 2	

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
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
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
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

(EC) Nr. 1272/2008	Ciacomon process
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H312	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Corr. 1C, H314	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
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

Classification according to Regulation Classification procedure

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

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CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

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

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

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

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

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

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

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

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

**PSG:** Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

#### Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification

- SECTION 3: Composition/information on ingredients

- SECTION 7: Handling and storage

- SECTION 8: Exposure controls/personal protection

- SECTION 9: Physical and chemical properties

- SECTION 11: Toxicological information

- SECTION 12: Ecological information

- SECTION 14: Transport information

- SECTION 15: Regulatory information

- SECTION 16: Other information

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