## MACROFAN AVANTAGE CLEAR HT ADDITIVE

Version 1.0 Revision Date 16.04.2019 Print Date 04.11.2019

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

#### 1.1 Product identifier

Trade name : MACROFAN AVANTAGE CLEAR HT ADDITIVE

Product code : L0MT0404

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

Use of the : Paints, varnishes and enamels

Substance/Mixture

Chemical nature : Coating additive

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

Company : Lechler SpA

Via Cecilio 17

22100 Como- CO-

 Telephone
 : +39031586111

 Telefax
 : +39031586206

 E-mail address
 : safety@lechler.eu

Responsible/issuing person

### 1.4 Emergency telephone number

Tel. +39-031-586301 - This telephone number is available during office hours only. (8.00-18.00)

This telephone number is available during office hours only.

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin corrosion, Category 1C H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Specific target organ toxicity - single H336: May cause drowsiness or dizziness.

exposure, Category 3, Central nervous system

Specific target organ toxicity - repeated H373: May cause damage to organs through

exposure, Category 2

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

prolonged or repeated exposure.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms











Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters

airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through

prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P260 Do not breathe dust/ fume/ gas/ mist/

vapours/ spray.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P331 Do NOT induce vomiting.

Hazardous components which must be listed on the label:

• 112-55-0 dodecane-1-thiol

123-86-4 n-butyl acetate

• 26401-97-8 diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate

• 1330-20-7 xylene

#### 2.3 Other hazards

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None known.

No hazards resulting from the material as supplied.

The information required is contained in this Material Safety Data Sheet.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Liquid solution

### Hazardous components

Chemical name	CAS-No.	Classification	Concentration		
	EC-No.	(REGULATION (EC) No	[%]		
	Registration number	1272/2008)			
dodecane-1-thiol	112-55-0	Skin Corr. 1C; H314	>= 20 - < 25		
	203-984-1	Eye Dam. 1; H318			
	01-2119491318-31	Skin Sens. 1A; H317			
		Aquatic Acute 1; H400			
		Aquatic Chronic 1; H410			
		(Acute M=1)			
		(Chronic M=1)			
xylene	1330-20-7	Flam. Liq. 3; H226	>= 17,5 - < 20		
	215-535-7	Acute Tox. 4; H332			
	01-2119488216-32	Acute Tox. 4; H312			
		Skin Irrit. 2; H315			
		Note C			
diisooctyl 2,2'-	26401-97-8	Acute Tox. 4; H302	>= 0,1 - < 0,25		
[(dioctylstannylene)bis(t	247-666-0	Skin Sens. 1; H317			
hio)]diacetate		STOT SE 2; H371			
		Aquatic Chronic 3; H412			
Substances with a workplace exposure limit :					
n-butyl acetate	123-86-4	Flam. Liq. 3; H226	>= 17,5 - < 20		
	204-658-1	STOT SE 3; H336			
	01-2119485493-29				

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

### 4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical

advice.

Never give anything by mouth to an unconscious person.

If inhaled : Remove to fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial

respiration.

If unconscious, place in recovery position and seek medical

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advice.

In case of skin contact : Take off all contaminated clothing immediately.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Do NOT use solvents or thinners. Put shower on working place

In case of eye contact : Irrigate copiously with clean, fresh water for at least 10

minutes, holding the eyelids apart.

Seek medical advice.

Put eye-washer on working place

Remove contact lenses.

If swallowed : If accidentally swallowed obtain immediate medical attention.

Do NOT induce vomiting.

Keep at rest.

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

Symptoms : No information available.

Risks : No information available.

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

Treatment : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

Seek medical advice.

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

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Keep containers and surroundings cool with water spray.

Unsuitable extinguishing

media

: Do NOT use water jet.

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous

products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health

Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

### 5.3 Advice for firefighters

for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if

necessary.

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

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

Personal precautions : Solvent vapours are heavier than air and may spread along

floors.

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Ventilate the area

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean with detergents. Avoid solvents.

> Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container. The contaminated area

should be cleaned up immediately with a suitable

decontaminant. One possible (flammable) decontaminant comprises water (45 parts by volume)/ethanol or isopropanol

(50 parts)/concentrated

(d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts)/water (95 parts).

Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

Dam up.

Soak up with inert absorbent material and dispose of as

hazardous waste.

#### 6.4 Reference to other sections

Refer to section 15 for specific national regulation.

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

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#### 7.1 Precautions for safe handling

Advice on safe handling

: Avoid exceeding the given occupational exposure limits (see

section 8).

Use only in area provided with appropriate exhaust ventilation.

Avoid contact with skin, eyes and clothing.

Smoking, eating and drinking should be prohibited in the

application area.

Avoid inhalation of vapour or mist. For personal protection see section 8.

Thoroughly mix before using

After using, store in a well-sealed container

Advice on protection against fire and explosion

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than

the occupational exposure limits.

When transferring from one container to another apply earthing measures and use conductive hose material.

No sparking tools should be used.

The product should only be used in areas from which all naked lights and other sources of ignition have been

excluded. No smoking.

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

Requirements for storage areas and containers

: Observe label precautions.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Solvent vapours are heavier than air and may spread along

floors.

Vapours may form explosive mixtures with air.

Electrical installations / working materials must comply with

the technological safety standards.

Keep away from sources of ignition - No smoking.

Store between 5° an 35°C in a dry, well ventilated place away

from source of heat, ignition and direct sunlight.

Store in accordance with the particular national regulations.

Advice on common storage

: Keep away from oxidizing agents and strongly acid or alkaline

materials.

German storage class : 3 Flammable liquids

7.3 Specific end use(s)

: This information is not available.

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

#### 8.1 Control parameters

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Components	CAS-No.	Value	Control parameters	Update	Basis
dodecane-1- thiol	112-55-0	TWA	0,1 ppm	2014-03-01	ACGIH
xylenes	1330-20-7	TWA	50 ppm 221 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Iden	tifies the pos	sibility of significant ι	ptake through the skinl	ndicative
		STEL	100 ppm 442 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: lden	tifies the pos	sibility of significant u	ptake through the skinl	ndicative
n-butyl acetate	123-86-4	TWA	50 ppm	2016-03-01	ACGIH
		STEL	150 ppm	2016-03-01	ACGIH
diisooctyl 2,2'- [(dioctylstann ylene)bis(thio) ]diacetate	26401-97- 8	TWA	0,1 mg/m3	2013-03-01	ACGIH
Further information	: Tin		•		·
		STEL	0,2 mg/m3	2013-03-01	ACGIH
Further information	: Tin				

**DNEL** 

n-butyl acetate : End Use: Professional use

Exposure routes: Skin contact

Potential health effects: Local effects

Exposure time: 8 h Value: 7 ppm

End Use: Professional use Exposure routes: Inhalation

Potential health effects: Local effects

Value: 48 mg/m3

**PNEC** 

n-butyl acetate : Water

Value: 0,18 mg/l

Soil

Value: 0,093 mg/kg

## 8.2 Exposure controls

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Personal protective equipment

: Provide adequate ventilation. Respiratory protection

Hand protection : Solvent-resistant gloves (butyl-rubber) recomended.

> For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin,

they should however not be applied once exposure has

occurred.

Skin should be washed after contact. Wash your hands and put on barrier creams Protective gloves complying with EN 374.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of

the CE approved gloves.

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Skin should be washed after contact.

> Workers should wear antistatic footwear. Personnel should wear protective clothing. Flame retardant antistatic protective clothing.

**Environmental exposure controls** 

General advice Try to prevent the material from entering drains or water

courses.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

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

**Appearance** : liquid

Odour : solvent-like

: > 23 - 55 °C Flash point

Ignition temperature : not determined

Lower explosion limit : No data available

Upper explosion limit : No data available

Auto-ignition temperature : Not applicable

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pH : not determined

Freezing point : Not applicable

Boiling point : not determined

Vapour pressure : 1,00 hPa

at 50 °C

Density : 0,8967 g/cm3

Water solubility : not determined

Partition coefficient: n-

octanol/water

: No data available

Solubility in other solvents : not determined

Flow time : 15 s

3 mm

Method: ASTM D 1200 '82

Relative vapour density : Not applicable

Evaporation rate : not determined

9.2 Other information

Volatile organic compounds : 100 %

(VOC) content

**SECTION 10: Stability and reactivity** 

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Our products were manufactured in compliance with safety

standards to avoid decomposition and degrading under the

defined conditions.

Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring

it.

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10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), dense black smoke.

Thermal decomposition : Not applicable

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Product** 

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation

method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg, Calculation method

Skin corrosion/irritation : Repeated or prolonged contact with the mixture may cause

removal of natural fat from the skin resulting in desiccation of the skin., The product may be absorbed through the skin.

: Assessment: May cause damage to organs through prolonged

or repeated exposure.

Aspiration toxicity : May be fatal if swallowed and enters airways.

Further information : The concentration of each substance should be borne in mind

in assessing the toxicological effects deriving from the

preparation.

**Components:** 

xylene:

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg, Converted acute toxicity

point estimate

## **SECTION 12: Ecological information**

12.1 Toxicity

Toxicity to fish

Remarks:

No data is available on the product itself.

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M-Factor

dodecane-1-thiol : 1

12.2 Persistence and degradability

Biodegradability : No data available

12.3 Bioaccumulative potential

Bioaccumulation : No data available

12.4 Mobility in soil

Mobility : No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological

information

: There is no data available for this product.

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

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Disposal together with normal waste is not allowed. Special

disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. The following Waste Codes are only suggestions:150110\*

### **SECTION 14: Transport information**

### 14.1 UN number

**ADR** : UN 1263

**IMDG** : UN 1263

## SAFETY DATA SHEET

according to Regulation (EC) No. 830/2015

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IATA : UN 1263

## 14.2 Proper shipping name

ADR PAINT RELATED MATERIAL PAINT RELATED MATERIAL

IATA Paint related material

## 14.3 Transport hazard class(es)

**ADR** : 3

**IMDG** : 3

**IATA** : 3

# 14.4 Packing group

## **ADR**

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

# **IMDG**

Packing group : III
Labels : 3

EmS Code : F-E,S-E

### **IATA**

Packing group : III Labels : 3

#### 14.5 Environmental hazards

### **ADR**

Environmentally hazardous : no

### **IMDG**

Marine pollutant : no

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**IATA** 

Environmentally hazardous : no

### 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59).

: Not applicable

REACH - List of substances

subject to authorisation

(Annex XIV)

: Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

: Banned and/or restricted

123-86-4	n-butyl acetate
26401-97-8	diisooctyl 2,2'-[(dioctylstannylene)bis(thio)]diacetate

MAL-Code-Number : 3-5 (1993)

1.378-m3 air/10 g

German storage class

(TRGS 510)

: 3: Flammable liquids

Risk classification according

to VbF

: Flash point 21 °C to 55 °C, at 15 °C not miscible in water

Specially dangerous flammable liquids

Water contaminating class

(Germany)

: highly water endangering

VWVWS A4

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This safety datasheet complies with the requirements of Regulation (EC) No. 830/2015. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

### 15.2 Chemical safety assessment

No data is available on the product itself.

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

#### Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.