

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifier:** 075 - VINYL ABLATIVE ANTIFOULING Other means of identification: Non-applicable Relevant identified uses of the substance or mixture and uses advised against: 1.2 Relevant uses: Anti-scale paint Uses advised against: All uses not specified in this section or in section 7.3 1.3 Details of the supplier of the safety data sheet: Industrias Titán, S.A.U. Pol. Ind. Pratense, calle 114 nº 17-19 08820 El Prat de Llobregat - Barcelona - España Phone.: +34 934 797 494 - Fax: +34 934 797 495 msds@titanlux.es http://www.titanlux.es 1.4 Emergency telephone number: +34 934 797 494 (7:30-14:30 h.) (working hours) SECTION 2: HAZARDS IDENTIFICATION \*\*

### Classification of the substance or mixture: 2.1

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

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332 Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410 Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 3: Flammable liquids, Category 3, H226 Repr. 2: Reproductive toxicity, Category 2, H361 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317 STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

#### 2.2 Label elements:

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

Danger



## Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Eye Dam. 1: H318 - Causes serious eye damage. Flam. Liq. 3: H226 - Flammable liquid and vapour. Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral). STOT SE 3: H335 - May cause respiratory irritation. **Precautionary statements:** 

\*\* Changes with regards to the previous version



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# **075 - VINYL ABLATIVE ANTIFOULING**

## SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P264: Wash thoroughly after handling.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

## Supplementary information:

Contains zinc ethylenebis(dithiocarbamate)(polymeric).

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

## Substances that contribute to the classification

Dicopper oxide; Xylene; Rosin; Tris(methylphenyl) phosphate

### 2.3 **Other hazards:**

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

## Chemical description: Mixture composed of additives, aggregates, pigments and resins in solvents

## **Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification					
CAS:	1317-39-1	Dicopper oxide <sup>(1)</sup>	ATP ATP09					
EC: 215-270-7 Index: 029-002-00-X REACH: 01-2119513794-36- XXXX		Regulation 1272/2008	Acute Tox. 4: H302+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318 - Danger	25 - <50 %				
CAS:	1330-20-7	Xylene <sup>(1)</sup>	Self-classified					
EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32- XXXX		Regulation 1272/2008	Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	20 - <25 %				
CAS:	1314-13-2	zinc oxide <sup>(1)</sup>	ATP CLP00					
EC: 215-222-5 Index: 030-013-00-7 REACH: 01-2119463881-32- XXXX		10-7 Aquatic Acute 1: H400: Aquatic Chronic 1: H410 - Warning		10 - <12,5 %				
CAS:	8050-09-7	Rosin <sup>(1)</sup> ATP CLP00						
EC: Index: REACH:	232-475-7 650-015-00-7 01-2119480418-32- XXXX	Regulation 1272/2008	Skin Sens. 1: H317 - Warning	7,5 - <10 %				
CAS:	1330-78-5	Tris(methylphenyl) phosphate <sup>(1)</sup> Self-classified						
EC: 215-548-8 Index: Non-applicable REACH: 01-2119531335-46- XXXX		Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Repr. 2: H361 - Warning	2,5 - <5 %				
CAS:	12122-67-7	zinc ethylenebis(dith	iocarbamate)(polymeric) <sup>(1)</sup> Self-classified					
EC: 235-180-1 Index: Non-applicable REACH: Non-applicable		Regulation 1272/2008	Aquatic Chronic 1: H410; Flam. Sol. 1: H228; Repr. 2: H361d; Skin Sens. 1: H317; STOT SE 3: H335 - Danger					
CAS:	13463-41-7	Pyrithione zinc <sup>(1)</sup> Self-classified						
Index: Non-applica	236-671-3 Non-applicable 01-2119511196-46- Regulation 1272/2008 Acute Tox. 3: H301+H331; Aquati Dam. 1: H318 - Danger		Acute Tox. 3: H301+H331; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318 - Danger	0,1 - <0,2 %				

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

\*\* Changes with regards to the previous version



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

\*\* Changes with regards to the previous version

## SECTION 4: FIRST AID MEASURES

#### 4.1 **Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

## By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

## By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

## By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1 **Extinguishing media:**

## Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

## Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

## 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

## Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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



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## 075 - VINYL ABLATIVE ANTIFOULING

## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

## 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

## 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

## D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

## A.- Technical measures for storage

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Minimum Temp.:	5 °C
Maximum Temp.:	40 °C
Maximum time:	36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

## 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters:



## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>
CAS: 1330-20-7 EC: 215-535-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>

## DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Dicopper oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1317-39-1	Dermal	Non-applicable	Non-applicable	137 mg/kg	Non-applicable
EC: 215-270-7	Inhalation	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m <sup>3</sup>	442 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>
zinc oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	5 mg/m <sup>3</sup>	0,5 mg/m <sup>3</sup>
Rosin	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	2,131 mg/kg	Non-applicable
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m <sup>3</sup>
Tris(methylphenyl) phosphate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-78-5	Dermal	Non-applicable	Non-applicable	0,41 mg/kg	Non-applicable
EC: 215-548-8	Inhalation	Non-applicable	Non-applicable	0,18 mg/m <sup>3</sup>	Non-applicable
Pyrithione zinc	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 13463-41-7	Dermal	Non-applicable	Non-applicable	0,01 mg/kg	Non-applicable
EC: 236-671-3	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable

## DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Dicopper oxide	Oral	0,082 mg/kg	Non-applicable	0,041 mg/kg	Non-applicable
CAS: 1317-39-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-270-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m <sup>3</sup>	260 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>	65,3 mg/m <sup>3</sup>
zinc oxide	Oral	Non-applicable	Non-applicable	0,83 mg/kg	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	2,5 mg/m <sup>3</sup>	Non-applicable
Rosin	Oral	Non-applicable	Non-applicable	1,065 mg/kg	Non-applicable
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	1,065 mg/kg	Non-applicable
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Tris(methylphenyl) phosphate	Oral	Non-applicable	Non-applicable	0,02 mg/kg	Non-applicable
CAS: 1330-78-5	Dermal	Non-applicable	Non-applicable	0,15 mg/kg	Non-applicable
EC: 215-548-8	Inhalation	Non-applicable	Non-applicable	0,03 mg/m <sup>3</sup>	Non-applicable

PNEC:

Identification				
Dicopper oxide	STP	0,23 mg/L	Fresh water	0,0078 mg/L
CAS: 1317-39-1	Soil	65 mg/kg	Marine water	0,0052 mg/L
EC: 215-270-7	Intermittent	Non-applicable	Sediment (Fresh water)	87 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	676 mg/kg



## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
zinc oxide	STP	0,1 mg/L	Fresh water	0,0206 mg/L
CAS: 1314-13-2	Soil	35,6 mg/kg	Marine water	0,0061 mg/L
EC: 215-222-5	Intermittent	Non-applicable	Sediment (Fresh water)	117,8 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	56,5 mg/kg
Rosin	STP	1000 mg/L	Fresh water	0,002 mg/L
CAS: 8050-09-7	Soil	0 mg/kg	Marine water	0 mg/L
EC: 232-475-7	Intermittent	0,016 mg/L	Sediment (Fresh water)	0,007 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,001 mg/kg
Tris(methylphenyl) phosphate	STP	100 mg/L	Fresh water	0,001 mg/L
CAS: 1330-78-5	Soil	1,01 mg/kg	Marine water	0 mg/L
EC: 215-548-8	Intermittent	0,001 mg/L	Sediment (Fresh water)	2,05 mg/kg
	Oral	0,00065 g/kg	Sediment (Marine water)	0,205 mg/kg
Pyrithione zinc	STP	0,01 mg/L	Fresh water	0,00009 mg/L
CAS: 13463-41-7	Soil	1,02 mg/kg	Marine water	0,00009 mg/L
EC: 236-671-3	Intermittent	Non-applicable	Sediment (Fresh water)	0,009 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,009 mg/kg

## 8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

## C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 420:2004+A1:2010	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

## D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2013 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

## F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
<b>*</b>	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>•</b> +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

## **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	20,62 % weight
V.O.C. density at 20 °C:	388,49 kg/m <sup>3</sup> (388,49 g/L)
Average carbon number:	8
Average molecular weight:	106,2 g/mol

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid
Appearance:	Viscous
Colour:	Not available
Odour:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	137 °C
Vapour pressure at 20 °C:	768 Pa
Vapour pressure at 50 °C:	4242,51 Pa (4,24 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1800 - 2000 kg/m <sup>3</sup>
Relative density at 20 °C:	1,8 - 2
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	>20,5 cSt
*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL	PROPERTIES (continued)
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20	) °C: Non-applicable *
Solubility in water at 20 °C:	
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	25 °C
Heat of combustion:	Non-applicable *
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	465 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *
9.2 Other information:	
Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *
*Not relevant due to the nature of the product,	, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

## 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

## 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

## **10.4** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Precaution	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

## **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

## **10.6** Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

## 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

## Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: Poly(tetrafluoroethylene) (3); Xylene (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Suspected of damaging fertility or the unborn child
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

## **Other information:**

Non-applicable

## Specific toxicology information on the substances:

Identification	Acut	e toxicity	Genus
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg	Rat
EC: 215-535-7	LC50 inhalation	29 mg/L (4 h)	Rat
Tris(methylphenyl) phosphate	LD50 oral	15750 mg/kg	Rat
CAS: 1330-78-5	LD50 dermal	Non-applicable	
EC: 215-548-8	LC50 inhalation	Non-applicable	



# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	A	cute toxicity	Genus
zinc oxide	LD50 oral	7950 mg/kg	Mouse
CAS: 1314-13-2	LD50 dermal	Non-applicable	
EC: 215-222-5	LC50 inhalation	Non-applicable	
Rosin	LD50 oral	4100 mg/kg	Rat
CAS: 8050-09-7	LD50 dermal	Non-applicable	
EC: 232-475-7	LC50 inhalation	Non-applicable	
Dicopper oxide	LD50 oral	1340 mg/kg	Rat
CAS: 1317-39-1	LD50 dermal	Non-applicable	
EC: 215-270-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	
Pyrithione zinc	LD50 oral	302 mg/kg	Rat
CAS: 13463-41-7	LD50 dermal	Non-applicable	
EC: 236-671-3	LC50 inhalation	0,61 mg/L (4 h)	Rat

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Contains phosphates. Excessive discharge may cause eutrophication.

## 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Dicopper oxide	LC50	0.8 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 1317-39-1	EC50	0.117 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-270-7	EC50	Non-applicable		
Xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	3.4 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae
zinc oxide	LC50	0.82 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 1314-13-2	EC50	3.4 mg/L (48 h)	Daphnia magna	Crustacean
EC: 215-222-5	EC50	Non-applicable		
Rosin	LC50	150 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 8050-09-7	EC50	238 mg/L (48 h)	Daphnia magna	Crustacean
EC: 232-475-7	EC50	185 mg/L (72 h)	Selenastrum capricornutum	Algae
Tris(methylphenyl) phosphate	LC50	0.6 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-78-5	EC50	Non-applicable		
EC: 215-548-8	EC50	Non-applicable		
zinc ethylenebis(dithiocarbamate)(polymeric)	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 12122-67-7	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 235-180-1	EC50	>0.1 - 1 mg/L (72 h)		Algae
Pyrithione zinc	LC50	0.003 mg/L (96 h)	Pimephales promelas	Fish
CAS: 13463-41-7	EC50	0.008 mg/L (48 h)	Daphnia magna	Crustacear
EC: 236-671-3	EC50	Non-applicable		

## 12.2 Persistence and degradability:

Identification	De	gradability	Biode	gradability
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
Rosin	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 8050-09-7	COD	Non-applicable	Period	28 days
EC: 232-475-7	BOD5/COD	Non-applicable	% Biodegradable	32 %
Tris(methylphenyl) phosphate	BOD5	Non-applicable	Concentration	2.6 mg/L
CAS: 1330-78-5	COD	Non-applicable	Period	28 days
EC: 215-548-8	BOD5/COD	Non-applicable	% Biodegradable	22 %

## 12.3 Bioaccumulative potential:



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## 075 - VINYL ABLATIVE ANTIFOULING

## SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Xylene	BCF	9
CAS: 1330-20-7	Pow Log	2.77
EC: 215-535-7	Potential	Low

## 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Xylene	Кос	202	Henry	524,86 Pa·m <sup>3</sup> /mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes

## 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

## 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

## **13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

## Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

## Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

## **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

## Transport of dangerous goods by land:

	With regard	to ADR	2019 and	I RID	2019:
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14.1	UN number:	UN1263
14.2	UN proper shipping name:	PAINT
<b>14.3</b>	Transport hazard class(es):	3
3	Labels:	3
14.4	Packing group:	III
14.5	Environmental hazards:	Yes
14.6	Special precautions for user	
	Special regulations:	163, 367, 650
Tunnel restriction code: Physico-Chemical proper Limited quantities:		D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of dangero	us goods by sea:	
With regard to IMDG 39	-18:	

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SECTION 14: TRANSP	ORT	INFORMATION (continued)	
	14 1	UN number:	UN1263
•		UN proper shipping name:	PAINT
XXX		Transport hazard class(es):	3
		Labels:	3
	14.4	Packing group:	III
	14.5	Marine pollutant:	Yes
	14.6	Special precautions for user	
		Special regulations:	223, 955, 163, 367
		EmS Codes:	F-E, S-E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		Segregation group:	Non-applicable
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of dangerous goods by air:			
With regard to IATA/ICAO 2020:			
	14.1	UN number:	UN1263
✓ <sup>2</sup> > ⟨ <sup>1</sup> / <sub>2</sub> >	14.2	UN proper shipping name:	PAINT
3	14.3	Transport hazard class(es):	3
		Labels:	3
		Packing group:	III
		Environmental hazards:	Yes
	14.6	Special precautions for user	
		Physico-Chemical properties:	see section 9
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

## SECTION 15: REGULATORY INFORMATION

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

Composition of the active ingredients (Regulation (EU) No 528/2012): Dicopper oxide (38%); Pyrithione zinc (0.1%) Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Dicopper oxide (Product-type 21); Pyrithione zinc (Product-type 2, 6, 7, 9, 10, 21)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements			
P5c	FLAMMABLE LIQUIDS	5000	50000			
E1	ENVIRONMENTAL HAZARDS	100	200			
Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):						

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# **075 - VINYL ABLATIVE ANTIFOULING**

## SECTION 15: REGULATORY INFORMATION (continued)

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Shall not be used in:

-ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The product could be affected by sectorial legislation

## 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

## Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

## Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3):

- Removed substances
  - Copper powder (7440-50-8)
  - Copper oxide (1317-38-0)
- CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): Supplementary information

## Texts of the legislative phrases mentioned in section 2:

- H361: Suspected of damaging fertility or the unborn child.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.
- H373: May cause damage to organs through prolonged or repeated exposure (Oral).

H317: May cause an allergic skin reaction.

H312+H332: Harmful in contact with skin or if inhaled.

H226: Flammable liquid and vapour.

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

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## SECTION 16: OTHER INFORMATION (continued) Acute Tox. 3: H301+H331 - Toxic if swallowed or if inhaled. Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled. Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Flam. Sol. 1: H228 - Flammable solid. Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Repr. 2: H361d - Suspected of damaging the unborn child. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral). STOT SE 3: H335 - May cause respiratory irritation. **Classification procedure:** Repr. 2: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Skin Irrit. 2: Calculation method Eye Dam. 1: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method Skin Sens. 1: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3) Advice related to training: Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.