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## 2K PU MARINE VARNISH (component A) 24-11-45A

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifier:** 2K PU MARINE VARNISH (component A) 24-11-45A Other means of identification: UFI: RKV0-Q0VE-J00R-57E6 Relevant identified uses of the substance or mixture and uses advised against: 1.2 Relevant uses: Decoration and protection of wood 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: Evochem S.A. Tzaverdella Place 133 41 Phili - Attica - Greece Phone: 0030 210 5590460 , 0030 210 5590155 - Fax: 0030 210 6254737 , 0030 210 5590244 info@evochem.ar http://www.evochem.gr 1.4 Emergency telephone number: National Poisoning Center 2107793777

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

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

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

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412

Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315

## 2.2 Label elements:

Evochen

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

Warning



## Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation.

#### Precautionary statements:

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/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of water.

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:

EUH208: Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

UFI: RKV0-Q0VE-J00R-57E6

# 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria Endocrine-disrupting properties: The product fails to meet the criteria.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substance:

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# 2K PU MARINE VARNISH (component A) 24-11-45A

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

Non-applicable

## 3.2 Mixture:

**Chemical description:** Solution based on solvents, mineral oils, glycol-ethers, preservatives and colourants. **Components:** 

#### Components:

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

	Identification		Chemical name/Classification					
CAS:	1330-20-7	Xylene <sup>(1)</sup> ATP CLP00						
EC: Index: REACH:	215-535-7 601-022-00-9 : 01-2119488216-32- XXXX	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	1.0	24 - <50 %			
CAS: EC:	123-86-4	N-butyl acetate <sup>(1)</sup>		ATP CLP00				
Index:	204-658-1 607-025-00-1 : 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	() ()	19 - <24 %			
CAS:	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32- XXXX	Xylene <sup>(1)</sup>		Self-classified				
Index:		Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; 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	() () ()	4,9 - <9,9 %			
CAS:	100-41-4	Ethylbenzene <sup>(1)</sup>		ATP ATP06				
EC: Index: REACH:	202-849-4 601-023-00-4 01-2119489370-35- XXXX	Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	() () ()	2,4 - <4,9 %			
	41556-26-7	Bis(1,2,2,6,6-pentam	ethyl-4-piperidyl) sebacate <sup>(1)</sup>	Self-classified				
EC: Index: REACH:	255-437-1 Non-applicable Non-applicable	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1: H317 - Warning		0,24 - <0,9 %			

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

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

# 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:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

## 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 water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for 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.

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

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

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

#### Non-applicable

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# 2K PU MARINE VARNISH (component A) 24-11-45A

## 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 (CO<sub>2</sub>).

#### 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:

#### For non-emergency personnel:

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. Remove 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.

# For emergency responders:

See section 8.

6.3

#### 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.

## 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.- General precautions for safe use

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

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# 2K PU MARINE VARNISH (component A) 24-11-45A

# SECTION 7: HANDLING AND STORAGE (continued)

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 on general occupational hygiene

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 Minimum Temp.: 5 °C Maximum Temp.: 35 °C Maximum time: 12 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:

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	Occ	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>	
N-butyl acetate	IOELV (8h)	50 ppm	241 mg/m <sup>3</sup>	
CAS: 123-86-4 EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m <sup>3</sup>	
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>	
Ethylbenzene	IOELV (8h)	100 ppm	442 mg/m <sup>3</sup>	
CAS: 100-41-4 EC: 202-849-4	IOELV (STEL)	200 ppm	884 mg/m <sup>3</sup>	

## DNEL (Workers):

	Short	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
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>
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m <sup>3</sup>	600 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	300 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>

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# 2K PU MARINE VARNISH (component A) 24-11-45A

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

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Ethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable

## DNEL (General population):

	Short	Short exposure		exposure	
Identification		Systemic	Local	Systemic	Local
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>
N-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
CAS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>
Xylene	Oral	Non-applicable	Non-applicable	12, <mark>5 mg/kg</mark>	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>
Ethylbenzene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable

## PNEC:

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
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg
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
Ethylbenzene	STP	9,6 mg/L	Fresh water	0,1 mg/L
CAS: 100-41-4	Soil	2,68 mg/kg	Marine water	0,01 mg/L
EC: 202-849-4	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	0,02 g/kg	Sediment (Marine water)	1,37 mg/kg

## 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

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# 2K PU MARINE VARNISH (component A) 24-11-45A

SECTION 8: EXPOSURE	CONTROLS/PERSONA	AL PROTECTI	ON (continued)	
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN 420:2004+A1:2010	Replace the gloves at any sign of deterioration.
	a mixture of several subs d has therefore to be che			rial can not be calculated in advance with
D Eye and face prot				
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E Body protection				
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing	CAT	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	CAT III	EN ISO 13287:2013 EN ISO 20345:2011	Replace boots at any sign of deterioration.
F Additional emerge	ency measures			
Emergency mea	asure Sta	andards	Emergency measu	ire Standards
Emergency sho	ISO 3864-1:20	51 Z358-1 11, ISO 3864-4:201	11 Eyewash station	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 s
Environmental exp	osure controls:			· · · · ·
spillage of both the p Volatile organic co	roduct and its container. I mpounds:	For additional in	nformation see subsectior	s recommended to avoid environmental ו 7.1.D
With regard to Direct V.O.C. (Supply):	ive 2010/75/EU, this proc	luct has the foll	lowing characteristics:	
V.O.C. (Supply). V.O.C. density at		7 kg/m <sup>3</sup> (583,	27 a/l )	
Average carbon n				
Average molecula		g/mol		
SECTION 9: PHYSICAL	AND CHEMICAL PROP	ERTIES		
9.1 Information on bas	sic physical and chemi	cal properties		
	tion see the product data			
Appearance:				
Physical state at 20 °	C:	Liqui	d	
Appearance:		Fluid		
Colour:			urless	
*Not relevant due to the r	nature of the product, not provi	iding information p	property of its hazards.	

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# 2K PU MARINE VARNISH (component A) 24-11-45A

SEC	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)
	Odour:	Not available
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	119 °C
	Vapour pressure at 20 °C:	2025 Pa
	Vapour pressure at 50 °C:	10659,9 Pa (10,66 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	923,8 kg/m³
	Relative density at 20 °C:	0,924
	Dynamic viscosity at 20 °C:	400 cP
	Kinematic viscosity at 20 °C:	433,01 mm²/s
	Kinematic viscosity at 40 °C:	Non-applicable *
	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:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	31 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	382 °C
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard clas	
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing info	
	· · · · ·	

# 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.

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## 2K PU MARINE VARNISH (component A) 24-11-45A

## SECTION 10: STABILITY AND REACTIVITY (continued)

#### **10.2** Chemical stability:

Chemically stable under the indicated 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:

10.5

Applicable for handling and storage at room temperature:

Shock and friction Contact with air Increase			Increase in temperature	Sunlight	Humidity			
Not applicable Not applicable		Not applicable	Risk of combustion	Avoid direct impact	Not applicable			
	Incompatible materials:							
	Acids	Water	Ovidising materials	Combustible materials	Others			

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

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

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, as it does not contain substances classified as hazardous 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 : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- 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 hazardous for the effects mentioned. For more information see section 3.
  - IARC: Xylene (3); Ethylbenzene (2B); Xylene (3); Distillates (petroleum), hydrotreated light (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

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## 2K PU MARINE VARNISH (component A) 24-11-45A

## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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 hazardous for this effect. For more information see section 3.

## Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	A	Acute toxicity		
N-butyl acetate		LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4		LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1		LC50 inhalation	23,4 mg/L (4 h)	Rat
Xylene		LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7		LD50 dermal	1100 mg/kg	Rat
EC: 215-535-7		LC50 inhalation	11 mg/L (ATEi)	
Ethylbenzene		LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4		LD50 dermal	15354 mg/kg	Rabbit
EC: 202-849-4		LC50 inhalation	17,2 mg/L (4 h)	Rat
Xylene		LD50 oral	3523 mg/kg	Rat
CAS: 1330-20-7		LD50 dermal	1100 mg/kg (ATEi)	
EC: 215-535-7		LC50 inhalation	11 mg/L (ATEi)	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate		LD50 oral	2615 mg/kg	Rat
CAS: 41556-26-7		LD50 dermal	Non-applicable	
EC: 255-437-1		LC50 inhalation	Non-applicable	

## 11.2 Information on other hazards:

#### Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

#### Other information

Non-applicable

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# 2K PU MARINE VARNISH (component A) 24-11-45A

# SECTION 12: ECOLOGICAL INFORMATION

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

## 12.1 Toxicity:

#### Acute toxicity:

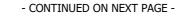
Identification		Concentration	Species	Genus	
N-butyl acetate	LC50	Non-applicable			
CAS: 123-86-4	EC50	Non-applicable			
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae	
Xylene	LC50	>10 - 100 (96 h)		Fish	
CAS: 1330-20-7	EC50	>10 - 100 (48 h)		Crustacean	
EC: 215-535-7	EC50	>10 - 100 (72 h)		Algae	
Ethylbenzene	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish	
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean	
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LC50	0,97 mg/L (96 h)	Lepomis macrochirus	Fish	
CAS: 41556-26-7	EC50	20 mg/L (24 h)	Daphnia magna	Crustacean	
EC: 255-437-1	EC50	Non-applicable			

#### **Chronic toxicity:**

Identification		Concentration	Species	Genus
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
N-butyl acetate	NOEC	Non-applicable		
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 mg/L	Daphnia magna	Crustacean
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
Ethylbenzene	NOEC	Non-applicable		
CAS: 100-41-4 EC: 202-849-4	NOEC	0,96 mg/L	Ceriodaphnia dubia	Crustacean

## 12.2 Persistence and degradability:

Identification		Degradability		Biodegradability	
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 %
N-butyl acetate		BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4		COD	Non-applicable	Period	5 days
EC: 204-658-1		BOD5/COD	Non-applicable	% Biodegradable	84 %



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# 2K PU MARINE VARNISH (component A) 24-11-45A

Identification		Degra	dability	E	Biodegradability		
Xylene	BOD5		Non-applicable Co	oncentration		Non-applicable	
CAS: 1330-20-7	COD		Non-applicable Pe	eriod	d		
EC: 215-535-7	BOD5/0	COD	Non-applicable %	Biodegradable	odegradable		
Ethylbenzene	BOD5		Non-applicable Co	oncentration		100 mg/L	
CAS: 100-41-4	COD		Non-applicable Pe	eriod		14 days	
EC: 202-849-4	BOD5/0	COD	Non-applicable %	Biodegradable		90 %	
<b>Bioaccumulative potential:</b>							
	Identification			Bioa	ccumulatio	n potential	
Xylene				BCF	9		
CAS: 1330-20-7				Pow Log	2.77		
EC: 215-535-7				Potential	Low		
N-butyl acetate				BCF	4		
CAS: 123-86-4				Pow Log	1.78		
EC: 204-658-1				Potential	Low		
Xylene				BCF	CF 9		
CAS: 1330-20-7				Pow Log	2.77		
EC: 215-535-7				Potential	Low		
Ethylbenzene		•		BCF	1		
CAS: 100-41-4				Pow Log	3.15		
EC: 202-849-4				Potential	Low		
4 Mobility in soil:							
Identification		Absorp	tion/desorption		Volat	ility	
Xylene	Кос		202	Henry		524,86 Pa·m³/mo	
CAS: 1330-20-7	Conclus	sion	Moderate	Dry soil		Yes	
EC: 215-535-7	Surface	tension	Non-applicable	Moist soil		Yes	
N-butyl acetate	Кос		Non-applicable	Henry		Non-applicable	
CAS: 123-86-4	Conclus	sion	Non-applicable	Dry soil		Non-applicable	
EC: 204-658-1	Surface	tension	2,478E-2 N/m (25 °C	) Moist soil		Non-applicable	
Xylene	Кос		202	Henry		524,86 Pa·m³/mo	
CAS: 1330-20-7	Conclus	sion	Moderate	Dry soil		Yes	
EC: 215-535-7	Surface	tension	Non-applicable	Moist soil		Yes	
Ethylbenzene	Кос		520	Henry		798,44 Pa·m³/mo	
CAS: 100-41-4	Conclus	sion	Moderate	Dry soil		Yes	
EC: 202-849-4	Surface	tension	2,859E-2 N/m (25 °C) Moist soil			Yes	

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## 2K PU MARINE VARNISH (component A) 24-11-45A

# SECTION 12: ECOLOGICAL INFORMATION (continued)

Product fails to meet PBT/vPvB criteria

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

Endocrine-disrupting properties: The product fails to meet the criteria.

#### 12.7 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
<b>T</b>		

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

HP14 Ecotoxic, HP3 Flammable, HP6 Acute Toxicity, 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. Waste should not be disposed of to drains. See paragraph 6.2.

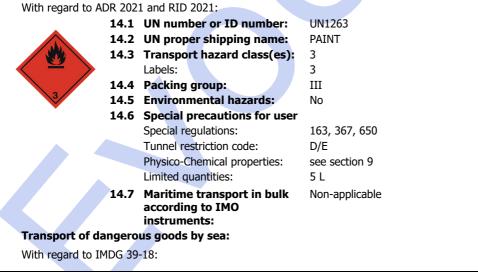
## **Regulations related to waste management:**

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:



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# 2K PU MARINE VARNISH (component A) 24-11-45A

SECTION 14: TRANSPORT INFORMATIC	DN (continued)
14.1 UN number 14.2 UN proper s 14.3 Transport ha Labels:	shipping name: PAINT
14.4 Packing gro	
3 14.5 Marine pollu	
Limited quant	ations: 223, 955, 163, 367 F-E, S-E nical properties: see section 9 tities: 5 L
Segregation g 14.7 Maritime tra according to instruments	ansport in bulk Non-applicable o IMO
Transport of dangerous goods by a	air:
With regard to IATA/ICAO 2022:	
14.1UN number14.2UN proper s14.3Transport ha Labels:14.4Packing gro14.5Environmen14.6Special prec Physico-Chem14.7Maritime tra according to instruments	shipping name: PAINT   nazard class(es): 3   3 3   pup: III   ntal hazards: No   cautions for user see section 9   nical properties: see section 9   ansport in bulk Non-applicable

# SECTION 15: REGULATORY INFORMATION

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

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: Non-applicable

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
Limitations	to commercialisation and the use of certain dangerous substances and mix	ctures (Annex 2	XVII REACH
and ashtrays —tricks and —games for	l articles intended to produce light or colour effects by means of different phases, for	·	mental lamps
assessments product. Other legis	ended to use the information included in this safety data sheet as a basis for conduct in order to establish the necessary risk prevention measures for the handling, use, st <b>lation:</b>	5 1 1	

The product could be affected by sectorial legislation

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## 2K PU MARINE VARNISH (component A) 24-11-45A

# SECTION 15: REGULATORY INFORMATION (continued)

#### 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 (COMMISSION REGULATION (EU) 2020/878).

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

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

H315: Causes skin irritation.

H412: Harmful to aquatic life with long lasting effects.

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:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

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 RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

### STOT SE 3: H336 - May cause drowsiness or dizziness.

### **Classification procedure:**

Skin Irrit. 2: Calculation method

Aquatic Chronic 3: Calculation method Flam. Lig. 3: Calculation method (2.6.4.3)

#### Advice related to training:

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: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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# 2K PU MARINE VARNISH (component A) 24-11-45A

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.