


**YACHT VARNISH - Polyurethane based  
marine grade wood varnish  
24-48**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** YACHT VARNISH - Polyurethane based marine grade wood varnish  
24-48  
Long oil lenght alkyd resin (Viscosity 3000 cP at 20°C)
- CAS: Non-applicable  
EC: Non-applicable  
Index: Non-applicable  
REACH: Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
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.gr; vmergoupis@evochem.gr;  
sales@evochem.gr  
www.evochem.gr
- 1.4 Emergency telephone number:** National Poisoning Center 2107793777

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**
- Directive 67/548/EC and Directive 1999/45/EC:**  
This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).  
Carc. Cat 3: R40 - Limited evidence of a carcinogenic effect  
Xi: R43 - May cause sensitisation by skin contact  
Xn: R65 - Harmful: may cause lung damage if swallowed  
R10 - Flammable  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- CLP Regulation (EC) n° 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.  
Acute Tox. 4: Acute inhalation toxicity, Category 4  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3  
Asp. Tox. 1: Aspiration hazard, Category 1  
Carc. 2: Carcinogenicity, Category 2  
Eye Irrit. 2: Eye irritation, Category 2  
Flam. Liq. 3: Flammable liquids, Category 3  
Skin Sens. 1: Sensitisation, skin, Category 1
- 2.2 Label elements:**
- Directive 67/548/EC and Directive 1999/45/EC:**  
In accordance with the legislation, the elements on the label are as follows:
- Xn  
  
Harmful
- R Phrases:**  
R10: Flammable  
R40: Limited evidence of a carcinogenic effect  
R43: May cause sensitisation by skin contact  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R65: Harmful: may cause lung damage if swallowed
- S Phrases:**

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**SECTION 2: HAZARDS IDENTIFICATION (continue)**

S2: Keep out of the reach of children  
S36/37: Wear suitable protective clothing and gloves  
S43: In case of fire, use polyvalent powder ABC  
S46: If swallowed, seek medical advice immediately and show this container or label

**Supplementary information:**

Non-applicable

**Substances that contribute to the classification:**

Butanone oxime (CAS: 96-29-7)

**CLP Regulation (EC) n° 1272/2008:**

**Danger**



**Hazard statements:**

Acute Tox. 4: H332 - Harmful if inhaled  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Carc. 2: H351 - Suspected of causing cancer  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Skin Sens. 1: H317 - May cause an allergic skin reaction

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P103: Read label before use  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

**Supplementary information:**

EUH066: Repeated exposure may cause skin dryness or cracking  
EUH208: Contains Butanone oxime, Cobalt bis(2-ethylhexanoate). May produce an allergic reaction

**Substances that contribute to the classification**

Distillates (petroleum), hydrotreated light (CAS: 64742-47-8); Solvent naphtha (petroleum), medium aliph (FP<=55°C) (CAS: 64742-88-7); Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 (CAS: 64742-82-1); Xylene (mixture of isomers) (CAS: 1330-20-7)

**2.3 Other hazards:**

Non-applicable

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

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

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: Non-applicable EC: Non-applicable Index: Non-applicable REACH: Non-applicable	<b>Long oil lenght alkyd resin (Viscosity 3000 cP at 20°C)</b> Not classified Directive 67/548/EC Regulation 1272/2008	24 - <50 %
CAS: 64742-47-8 EC: 265-149-8 Index: 649-422-00-2 REACH: 01-2119484819-18-XXXX	<b>Distillates (petroleum), hydrotreated light</b> ATP CLP00 Directive 67/548/EC: Xn: R65 Regulation 1272/2008: Asp. Tox. 1: H304 - Danger	9,9 - <19 %

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)**

Identification	Chemical name/Classification	Concentration
CAS: 64742-88-7 EC: 265-191-7 Index: 649-405-00-X REACH:01-2119537181-47-XXXX	<b>Solvent naphtha (petroleum), medium aliph (FP&lt;=55°C)</b> Self-classified	9,9 - <19 %
	Directive 67/548/EC N: R51/53; Xn: R65; R10; R66 Regulation 1272/2008 Aerosol 3: H229; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226 - Danger	
CAS: 64742-82-1 EC: 265-185-4 Index: 649-330-00-2 REACH:01-2119490979-12-XXXX	<b>Naphtha (petroleum), hydrodesulfurized heavy, &lt; 0.1 % EC 200-753-7</b> ATP ATP05	0,9 - <2,4 %
	Directive 67/548/EC N: R51/53; Xn: R65; R10; R66; R67 Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336 - Danger	
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH:01-2119488216-32-XXXX	<b>Xylene (mixture of isomers)</b> ATP CLP00	0,9 - <2,4 %
	Directive 67/548/EC Xi: R38; Xn: R20/21; R10 Regulation 1272/2008 Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning	
CAS: 96-29-7 EC: 202-496-6 Index: 616-014-00-0 REACH:01-2119539477-28-XXXX	<b>Butanone oxime</b> ATP CLP00	0,9 - <2,4 %
	Directive 67/548/EC Carc. Cat 3: R40; Xi: R41, R43; Xn: R21 Regulation 1272/2008 Acute Tox. 4: H312; Carc. 2: H351; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	
CAS: 95-63-6 EC: 202-436-9 Index: 601-043-00-3 REACH:01-2119472135-42-XXXX	<b>1,2,4-trimethylbenzene</b> ATP CLP00	0,09 - <0,24 %
	Directive 67/548/EC N: R51/53; Xi: R36/37/38; Xn: R20; R10 Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	
CAS: 136-52-7 EC: 205-250-6 Index: Non-applicable REACH:01-2119524678-29-XXXX	<b>Cobalt bis(2-ethylhexanoate)</b> Self-classified	0,09 - <0,24 %
	Directive 67/548/EC N: R50/53; Repr. Cat 3: R62; Xi: R43 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 2: H361; Skin Sens. 1: H317 - Warning	
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH:01-2119489370-35-XXXX	<b>Ethylbenzene</b> ATP ATP06	<0,09 %
	Directive 67/548/EC F: R11; Xn: R20, R48/20, R65 Regulation 1272/2008 Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	

To obtain more information on the risk of the substances consult sections 8, 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 MSDS 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:**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters, ...), seek medical advice with this Security Data Sheet

**By eye contact:**

Rinse eyes thoroughly with luke warm 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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

**By consumption:**

Request medical assistance immediately, showing the MSDS of this product. Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

**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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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). IT IS RECOMMENDED NOT to use tap 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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:

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 spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertizing agent. 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 94/9/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

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

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**SECTION 7: HANDLING AND STORAGE (continue)**

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 work environment

Identification	Environmental limits		
	IOELV (8h)	IOELV (STEL)	Year
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	50 ppm	221 mg/m <sup>3</sup>	2014
	100 ppm	442 mg/m <sup>3</sup>	
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	20 ppm	100 mg/m <sup>3</sup>	2014
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	100 ppm	442 mg/m <sup>3</sup>	2014
	200 ppm	884 mg/m <sup>3</sup>	

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable
Butanone oxime CAS: 96-29-7 EC: 202-496-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	2,5 mg/kg	Non-applicable	1,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m <sup>3</sup>	3,33 mg/m <sup>3</sup>
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	16171 mg/kg	Non-applicable
	Inhalation	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,2351 mg/m <sup>3</sup>
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable

**DNEL (Population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	14,8 mg/m <sup>3</sup>	Non-applicable

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Butanone oxime CAS: 96-29-7 EC: 202-496-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	1,5 mg/kg	Non-applicable	0,78 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,7 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	Oral	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	9512 mg/kg	Non-applicable
	Inhalation	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6	Oral	Non-applicable	Non-applicable	0,0558 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,037 mg/m <sup>3</sup>
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification				
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Butanone oxime CAS: 96-29-7 EC: 202-496-6	STP	177 mg/L	Fresh water	0,256 mg/L
	Soil	Non-applicable	Marine water	Non-applicable
	Intermittent	0,118 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	STP	2,41 mg/L	Fresh water	0,12 mg/L
	Soil	2,34 mg/kg	Marine water	0,12 mg/L
	Intermittent	0,12 mg/L	Sediment (Fresh water)	13,56 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	13,56 mg/kg
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6	STP	0,37 mg/L	Fresh water	0,00051 mg/L
	Soil	7,9 mg/kg	Marine water	0,00236 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	9,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	9,5 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	STP	9,6 mg/L	Fresh water	0,1 mg/L
	Soil	2,68 mg/kg	Marine water	0,01 mg/L
	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	1,37 mg/kg

**8.2 Exposure controls:**

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

If product is used at the concentration dosing conditions specified in the relevant instructions for use (section 15), personal protective equipment described in section 8.2 for UNDILUTED products will not be required.

Safe handling recommendations for undiluted product:

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional 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**



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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2001+A1:2009	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 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	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.



D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

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 6529:2001 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 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**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

**Volatil organic compounds:**

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply): 33,3 % weight  
V.O.C. density at 20 °C: 327,82 kg/m<sup>3</sup> (327,82 g/L)  
Average carbon number: 10,7  
Average molecular weight: 157,89 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 °C: 398,85 kg/m<sup>3</sup> (398,85 g/L)  
EUlimit for the product (Cat. A.E): 400 g/L (2010)  
Components: 004 - 15 % v/v

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For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C: Liquid  
Appearance: Transparent  
Color: Not available  
Odor: Characteristic

**Volatility:**

Boiling point at atmospheric pressure: 173 °C  
Vapour pressure at 20 °C: 284 Pa  
Vapour pressure at 50 °C: 1844 Pa (2 kPa)  
Evaporation rate at 20 °C: Non-applicable \*

**Product description:**

Density at 20 °C: 984 kg/m<sup>3</sup>  
Relative density at 20 °C: 0,984  
Dynamic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 20 °C: Non-applicable \*  
Kinematic viscosity at 40 °C: <20,5 cSt  
Concentration: 900 g/L (active ingredient)  
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 property: Non-applicable \*  
Decomposition temperature: Non-applicable \*  
Melting point/freezing point: Non-applicable \*

**Flammability:**

Flash Point: 42 °C  
Autoignition temperature: 230 °C  
Lower flammability limit: Not available  
Upper flammability limit: Not available

**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 if the following technical instructions storage of chemicals. 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:**

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**SECTION 10: STABILITY AND REACTIVITY (continue)**

Applicable for handling and storage at room temperature:

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

**10.5 Incompatible materials:**

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable

**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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

**Dangerous health implications:**

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

A.- Ingestion:

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

B- Inhalation:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

C- Contact with the skin and the eyes:

Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

E- Sensitizing effects:

Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT)-time exposure:

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

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

Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (4 h)	Rat
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	LD50 oral	3400 mg/kg	Rat
	LD50 dermal	3160 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat

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**SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	3500 mg/kg	15354 mg/kg	Rat
Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4	17,2 mg/L (4 h)		Rat
	5100 mg/kg	3160 mg/kg	Rat
	12 mg/L (4 h)		Rat
Butanone oxime CAS: 96-29-7 EC: 202-496-6	2100 mg/kg	1100 mg/kg	Rat
	Non-applicable		
Solvent naphtha (petroleum), medium aliph (FP<=55°C) CAS: 64742-88-7 EC: 265-191-7	2100 mg/kg	2000 mg/kg	Rat
	Non-applicable		Rabbit

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**

Identification	Acute toxicity		Specie	Genus
	LC50	EC50		
Solvent naphtha (petroleum), medium aliph (FP<=55°C) CAS: 64742-88-7 EC: 265-191-7	1 - 10 mg/L (96 h)			Fish
	1 - 10 mg/L			Crustacean
	1 - 10 mg/L			Alga
Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4	Non-applicable			
	4,3 mg/L (96 h)		Crangon crangon	Crustacean
	Non-applicable			
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	13,5 mg/L (96 h)		Oncorhynchus mykiss	Fish
	0,6 mg/L (96 h)		Gammarus lacustris	Crustacean
	10 mg/L (72 h)		Skeletonema costatum	Alga
Butanone oxime CAS: 96-29-7 EC: 202-496-6	843 mg/L (96 h)		Pimephales promelas	Fish
	750 mg/L (48 h)		Daphnia magna	Crustacean
	83 mg/L (72 h)		Scenedesmus subspicatus	Alga
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	7,72 mg/L (96 h)		Pimephales promelas	Fish
	6,14 mg/L (48 h)		Daphnia magna	Crustacean
	Non-applicable			
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6	0,1 - 1 mg/L (96 h)			Fish
	0,1 - 1 mg/L			Crustacean
	0,1 - 1 mg/L			Alga
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	42,3 mg/L (96 h)		Pimephales promelas	Fish
	75 mg/L (48 h)		Daphnia magna	Crustacean
	63 mg/L (3 h)		Chlorella vulgaris	Alga

**12.2 Persistence and degradability:**

Identification	Degradability		Biodegradability	
	BOD5	COD	Concentration	Period
Butanone oxime CAS: 96-29-7 EC: 202-496-6	Non-applicable		100 mg/L	28 days
	Non-applicable		24 %	
	Non-applicable			
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	Non-applicable		100 mg/L	28 days
	Non-applicable		18 %	
	0.43			
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Non-applicable		100 mg/L	14 days
	Non-applicable		90 %	
	Non-applicable			

**12.3 Bioaccumulative potential:**

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**SECTION 12: ECOLOGICAL INFORMATION (continue)**

Identification	Bioaccumulation potential	
Distillates (petroleum), hydrotreated light CAS: 64742-47-8 EC: 265-149-8	BCF	130
	Pow Log	3,3
	Potential	High
Solvent naphtha (petroleum), medium aliph (FP<=55°C) CAS: 64742-88-7 EC: 265-191-7	BCF	
	Pow Log	4,6
	Potential	
Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4	BCF	645
	Pow Log	4
	Potential	High
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	BCF	9
	Pow Log	2,77
	Potential	Low
Butanone oxime CAS: 96-29-7 EC: 202-496-6	BCF	5
	Pow Log	0,59
	Potential	Low
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	BCF	154
	Pow Log	3,78
	Potential	High
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF	1
	Pow Log	3,15
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7	Koc	202	Henry	5,249E+2 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
Butanone oxime CAS: 96-29-7 EC: 202-496-6	Koc	3	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	25700 N/m (25 °C)	Moist soil	Non-applicable
1,2,4-trimethylbenzene CAS: 95-63-6 EC: 202-436-9	Koc	537	Henry	6,242E+2 Pa·m <sup>3</sup> /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	29190 N/m (25 °C)	Moist soil	Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc	520	Henry	7,984E+2 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	28590 N/m (25 °C)	Moist soil	Yes

**12.5 Results of PBT and vPvB assessment:**

Non-applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Directive 2008/98/EC)
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

**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 (2000/532/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 recommend disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continue)**

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2013 and RID 2013:



- |   |                |
|---|----------------|
| <b>14.1 UN number:</b>  | UN1263         |
| <b>14.2 UN proper shipping name:</b>  | PAINT          |
| <b>14.3 Transport hazard class(es):</b>   | 3              |
| Labels:   | 3              |
| <b>14.4 Packing group:</b>  | III            |
| <b>14.5 Dangerous for the environment:</b>  | No             |
| <b>14.6 Special precautions for user</b>  |                |
| Special regulations:  | 163, 640E, 650 |
| Tunnel restriction code:  | D/E            |
| Physico-Chemical properties:  | see section 9  |
| Limited quantities:   | 5 L            |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> | Non-applicable |

**Transport of dangerous goods by sea:**

With regard to IMDG 36-12:



- |   |                    |
|---|--------------------|
| <b>14.1 UN number:</b>  | UN1263             |
| <b>14.2 UN proper shipping name:</b>  | PAINT              |
| <b>14.3 Transport hazard class(es):</b>   | 3                  |
| Labels:   | 3                  |
| <b>14.4 Packing group:</b>  | III                |
| <b>14.5 Dangerous for the environment:</b>  | No                 |
| <b>14.6 Special precautions for user</b>  |                    |
| Special regulations:  | 163, 223, 944, 955 |
| EmS Codes:  | F-E, S-E           |
| Physico-Chemical properties:  | see section 9      |
| Limited quantities:   | 5 L                |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> | Non-applicable     |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2014:



- |   |                |
|---|----------------|
| <b>14.1 UN number:</b>  | UN1263         |
| <b>14.2 UN proper shipping name:</b>  | PAINT          |
| <b>14.3 Transport hazard class(es):</b>   | 3              |
| Labels:   | 3              |
| <b>14.4 Packing group:</b>  | III            |
| <b>14.5 Dangerous for the environment:</b>  | No             |
| <b>14.6 Special precautions for user</b>  |                |
| Physico-Chemical properties:  | see section 9  |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b> | Non-applicable |

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**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) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):**

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.

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

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

**Relevant instructions for use:**

Thinning: 10-15% white spirit

**Other legislation:**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No. 988

**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:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Non-applicable

**Text of R-phrases considered 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

**Directive 67/548/EC and Directive 1999/45/EC:**

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**SECTION 16: OTHER INFORMATION (continue)**

R10: Flammable  
R11: Highly flammable  
R20: Harmful by inhalation  
R20/21: Harmful by inhalation and in contact with skin  
R21: Harmful in contact with skin  
R36/37/38: Irritating to eyes, respiratory system and skin  
R38: Irritating to skin  
R40: Limited evidence of a carcinogenic effect  
R41: Risk of serious damage to eyes  
R43: May cause sensitisation by skin contact  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R62: Possible risk of impaired fertility  
R65: Harmful: may cause lung damage if swallowed  
R66: Repeated exposure may cause skin dryness or cracking  
R67: Vapours may cause drowsiness and dizziness

**CLP Regulation (EC) n° 1272/2008:**

Acute Tox. 4: H312 - Harmful in contact with skin  
Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled  
Acute Tox. 4: H332 - Harmful if inhaled  
Aerosol 3: H229 - Pressurised container: May burst if heated  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Aquatic Chronic 2: H411 - 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  
Carc. 2: H351 - Suspected of causing cancer  
Eye Dam. 1: H318 - Causes serious eye damage  
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  
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  
STOT SE 3: H335 - May cause respiratory irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>  
<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  
-CL50: Lethal Concentration 50  
-EC50: Effective concentration 50  
-Log-POW: Octanol–water partition coefficient  
-Koc: Partition coefficient of organic carbon

The information contained in this security 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 security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -