

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

• **1.1 Product identifier**

• **Trade name:** **VEMAR ROBUSTO PU UNDERCOAT PART A**

• Article number: 1080

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

- Life cycle stages PW Widespread use by professional workers
- Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC10 Roller application or brushing
- Environmental release category ERC10a Widespread use of articles with low release (outdoor)
- Article category AC7 Metal articles
- Technical function Other
- Application of the substance / the mixture Surface protection

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**



VEMAR YACHT COATINGS  
HB BODY S.A. ATHENS - DIYLSTIRION AV. - GR 19300 - ASPROPYRGOS - GREECE  
T: +30 210 55 90 411-2 F: +30 210 55 90 713  
email: sales@vemarcoatings.com website: www.vemarcoatings.com

• **Further information obtainable from:**



VEMAR YACHT COATINGS  
HB BODY S.A. ATHENS - DIYLSTIRION AV. - GR 19300 - ASPROPYRGOS - GREECE  
T: +30 210 55 90 411-2 F: +30 210 55 90 713  
email: sales@vemarcoatings.com website: www.vemarcoatings.com

• **1.4 Emergency telephone number:**

Regional Medicines and Poisons Information Centre NI  
Pharmacy Department, Royal Hospital Suite  
Grosvenor Road Belfast  
Telephone: +44 28 90 63 2032  
Fax: +44 28 90 24 80 30  
Emergency telephone: 844 892 0111  
E-mail address: nirdic.nirdic@belfasttrust.hscni.net  
Members of the public seeking specific information on poisons should contact:  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111

\* **SECTION 2: Hazards identification**

• **2.1 Classification of the substance or mixture**

• **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**



Skin Irrit. 2 H315 Causes skin irritation.

• **2.2 Label elements**

• **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

• Hazard pictograms



GHS02



GHS07

• Signal word Warning

• Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

• Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Additional information:**

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

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

• PBT: Not applicable.

• vPvB: Not applicable.

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

• **3.2 Chemical characterisation: Mixtures**

• **Description:** Mixture of hazardous substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 1330-20-7	xylene	15-<20%
EINECS: 215-535-7	Flam. Liq. 3, H226	
Index number: 601-022-00-9	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
RTECS: ZE 2100000		
Reg.nr.: 01-2119488216-32-001		
01-2119488216-32-002		
01-2119488216-32-003		
CAS: 13463-67-7	titanium dioxide	5-<10%
EINECS: 236-675-5	Carc. 2, H351	
Index number: 022-006-00-2		
CAS: 123-86-4	n-butyl acetate	1-<5%
EINECS: 204-658-1	Flam. Liq. 3, H226	
Index number: 607-025-00-1	STOT SE 3, H336	
RTECS: AF 7350000		
Reg.nr.: 01-2119485493-29-007		
01-2119485493-29-004		
01-2119485493-29-003		
01-2119485493-29-005		
01-2119485493-29		

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## Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A

CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	≥1-<2.5%
EINECS: 265-199-0	☠ Flam. Liq. 3, H226	
Index number: 649-356-00-4	☠ Asp. Tox. 1, H304	
Reg.nr.: 01-2119455851-35-0001	☠ Aquatic Chronic 2, H411	
	☠ Acute Tox. 4, H332; STOT SE 3, H335	
CAS: 872-50-4	1-methyl-2-pyrrolidone	≥0-<0.3%
EINECS: 212-828-1	☠ Repr. 1B, H360D	
Index number: 606-021-00-7	☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
RTECS: UY 5790000		

### • SVHC

872-50-4 1-methyl-2-pyrrolidone

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### • 4.1 Description of first aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**  
Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products
- **5.6 Fire and explosion Hazards**
- **Speial protective equipment and fire fighting procedures:**  
Firefighters should wear full protective flameproof clothing and self contained breathing apparatus for the firefighter if necessary. In the event of any fire try cool down the tanks with water spray. If possible do not allow the water used by firefighters to enter the drains or come in any contact with the water supply lines for the public. Always seek as appropriate.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**  
Requirements to be met by storerooms and receptacles: No special requirements.

**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

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

**8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

**1330-20-7 xylene**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

**123-86-4 n-butyl acetate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**872-50-4 1-methyl-2-pyrrolidone**

WEL Short-term value: 80 mg/m<sup>3</sup>, 20 ppm  
Long-term value: 40 mg/m<sup>3</sup>, 10 ppm  
Sk

- Regulatory information WEL: EH40/2020
- Ingredients with biological limit values:

**1330-20-7 xylene**

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

- Additional information: The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

- Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

The breakthrough time of gloves is unknown for this product itself. The glove material that can be used is recommended on the basis of the different substances in the preparation.

- For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Rubber gloves

**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**· Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information**· Appearance:Form:

Liquid

Colour:

Different according to colouring

· Odour:

Characteristic

· Odour threshold:

Not determined.

· **pH-value:**

Mixture is non-soluble (in water).

**· Change in condition**Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

137-143 °C (1330-20-7 xylene)

· **Flash point:**

23 - 60 °C

· **Flammability (solid, gas):**

Flammable.

· **Autoignition temperature:**

500 °C (1330-20-7 xylene)

· Decomposition temperature:

Not determined.

· **Ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Risk of explosion by shock, friction, fire or other sources of ignition.

· **Explosion limits:**Lower:

1.1 Vol % (1330-20-7 xylene)

Upper:

7 Vol % (1330-20-7 xylene)

· **Vapour pressure at 20 °C:**

6.7-8.2 hPa (1330-20-7 xylene)

· **Density at 20 °C:**1.625 g/cm<sup>3</sup>· Relative density

Not determined.

· Vapour density

Not determined.

· Evaporation rate

Not determined.

· **Solubility in / Miscibility with**water:

Fully miscible.

· **Partition coefficient: n-octanol/water:** Not determined.· **Viscosity:**Dynamic:

Not determined.

Kinematic at 20 °C:127.9 mm<sup>2</sup>/s· **Solvent content:**Organic solvents:

22.6 %

VOC (EC)

367.4 g/l

Solids content (volume):

77.1 %

· **9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity**· **10.1 Reactivity** No further relevant information available.· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **10.3 Possibility of hazardous reactions** No dangerous reactions known.· **10.4 Conditions to avoid** No further relevant information available.· **10.5 Incompatible materials:** No further relevant information available.

**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**

- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**

- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Dermal LD50 12,039 mg/kg

Inhalative LC50/4 h &gt;60 mg/l

**471-34-1 calcium carbonate**

Oral LD50 6,450 mg/kg (rat)

**1330-20-7 xylene**

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

**13463-67-7 titanium dioxide**

Oral LD50 &gt;20,000 mg/kg (rat)

Dermal LD50 &gt;10,000 mg/kg (rabbit)

Inhalative LC50/4 h &gt;6.82 mg/l (rat)

**123-86-4 n-butyl acetate**

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 &gt;5,000 mg/kg (rabbit)

Inhalative LC50/4 h &gt;21 mg/l (rat)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral LD50 &gt;6,800 mg/kg (rat)

Dermal LD50 &gt;3,400 mg/kg (rab)

Inhalative LC50/4 h &gt;10.2 mg/l (rat)

**872-50-4 1-methyl-2-pyrrolidone**

Oral LD50 3,914 mg/kg (rat)

Dermal LD50 8,000 mg/kg (rabbit)

- Primary irritant effect:

- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- Germ cell mutagenicity Based on available data, the classification criteria are not met.

- Carcinogenicity Based on available data, the classification criteria are not met.

- Reproductive toxicity Based on available data, the classification criteria are not met.

- STOT-single exposure Based on available data, the classification criteria are not met.

- STOT-repeated exposure Based on available data, the classification criteria are not met.

- Aspiration hazard Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

- **12.1 Toxicity**

- **Aquatic toxicity:**

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

- **12.2 Persistence and degradability**

This product contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

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**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**

- **Additional ecological information:**
- General notes:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1263
- **14.2 UN proper shipping name**
- **ADR** UN1263 PAINT
- **IMDG, IATA** PAINT
- **14.3 Transport hazard class(es)**
- **ADR**



- Class 3 (F1) Flammable liquids.
- Label 3
- **IMDG, IATA**



- Class 3 Flammable liquids.
- Label 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** III
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Warning: Flammable liquids.
- Hazard identification number (Kemler code): 30
- EMS Number: F-E, S-E
- Stowage Category A

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

• **Transport/Additional information:**

- ADR
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3
- Tunnel restriction code D/E

**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**

- IMDG
- Limited quantities (LQ)
- Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**

UN 1263 PAINT, 3, III

**SECTION 15: Regulatory information**

- 3Y
- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

None of the ingredients is listed.

- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



GHS02 GHS07

- Signal word Warning
- Hazard statements  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.
- Precautionary statements  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- **National regulations:**
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to UK REACH  
872-50-4 1-methyl-2-pyrrolidone
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

This information is based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H360D May damage the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

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**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A**

· **Contact:**



VEMAR YACHT COATINGS  
HB BODY S.A. ATHENS - DIYLSTIRION AV. - GR 19300 - ASPROPYRGOS - GREECE  
T: +30 210 55 90 411-2 F: +30 210 55 90 713  
email: sales@vemarcoatings.com website: www.vemarcoatings.com

· \* **Data compared to the previous version altered.**

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**Trade name: VEMAR ROBUSTO PU UNDERCOAT PART A****Annex: Exposure scenario**

- **Short title of the exposure scenario**
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category** PROC10 Roller application or brushing
- **Article category** AC7 Metal articles
- **Environmental release category** ERC10a Widespread use of articles with low release (outdoor)
- **Technical function** Other
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** According to directions for use.
- **Duration and frequency** Frequency of use:
- **Physical parameters**  
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**  
Avoid contact with the skin.  
Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.  
Outdoor application.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- Organisational protective measures  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- Technical protective measures  
Provide explosion-proof electrical equipment.  
Ensure that suitable extractors are available on processing machines
- Personal protective measures  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection**  
Ensure adequate labelling.  
Observe consumer information and advice on safe use.
- **Environmental protection measures**
- Water Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.
- Soil The product is only processed over the concrete collecting basin.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** This product is to be used by professional technicians only.
- **Guidance for downstream users**  
Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.