

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

### 1.1 Product identifier

Trade name: **VEMASHIELD EPOXY PRIMER Part A**

Article number: V645

UFI: 1MG2-T078-T001-T0J0

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

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC9a Coatings and paints, thinners, paint removers

Process category PROC10 Roller application or brushing

Environmental release category

ERC2 Formulation into mixture

ERC12c Use of articles at industrial sites with low release

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 - DIYLISTIRION 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 - DIYLISTIRION 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



GHS02 flame

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



GHS08 health hazard

## Trade name: VEMASHIELD EPOXY PRIMER Part A

Carc. 2                      H351   Suspected of causing cancer. Route of exposure: Inhalation.  
Repr. 2                     H361d Suspected of damaging the unborn child.



GHS05 corrosion

Eye Dam. 1                H318   Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2        H411   Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2                H315   Causes skin irritation.  
Skin Sens. 1               H317   May cause an allergic skin reaction.

### • 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



GHS05



GHS07



GHS08



GHS09

#### • Signal word Danger

#### • Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)

butan-1-ol

toluene

4-methylpentan-2-one

#### • Hazard statements

H225   Highly flammable liquid and vapour.

H315   Causes skin irritation.

H318   Causes serious eye damage.

H317   May cause an allergic skin reaction.

H351   Suspected of causing cancer. Route of exposure: Inhalation.

H361d Suspected of damaging the unborn child.

H411   Toxic to aquatic life with long lasting effects.

#### • Precautionary statements

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

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

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

P310   Immediately call a POISON CENTER/doctor.

P321   Specific treatment (see on this label).

P362+P364   Take off contaminated clothing and wash it before reuse.

P405   Store locked up.

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

This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT). This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

#### • 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.

Continue on page 3  
GB

**Trade name: VEMASHIELD EPOXY PRIMER Part A****• Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	15-<20%
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6	trizinc bis(orthophosphate)  Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1)	5-<10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	titanium dioxide  Carc. 2, H351 Note: V, W, 10	5-<10%
CAS: 1330-20-7 Index number: 601-022-00-9	xylene  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-<10%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 RTECS: XS 5250000 Reg.nr.: 01-2119471310-51-0000 01-2119471310-51-0003 01-2119471310-51-0005 01-2119471310-51-0002 01-2119471310-51-0027	toluene  Flam. Liq. 2, H225  Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35-0001	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Acute Tox. 4, H302; STOT SE 3, H335 STOT SE 3, H336 Note: H, P, 4	≥2.5-<5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 RTECS: EO 1400000 Reg.nr.: 01-2119484630-38-0000	butan-1-ol  Flam. Liq. 3, H226  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335 STOT SE 3, H336	≥3-<5%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 RTECS: SA 9275000 Reg.nr.: 01-2119473980-30-0002	4-methylpentan-2-one  Flam. Liq. 2, H225  Carc. 2, H351  Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336	1-<5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 RTECS: ZH 4810000	zinc oxide  Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1)	≥0.25-<0.9%

• **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:**

Supply fresh air and to be sure call for a doctor.

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. Then consult a doctor.

• **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.

• **For safety reasons unsuitable extinguishing agents:** Water with full jet

• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

Continue on page 4  
GB

**Trade name: VEMASHIELD EPOXY PRIMER Part A****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:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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).

Use neutralising agent.

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**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**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:**

**7727-43-7 barium sulphate, natural**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

**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

**108-88-3 toluene**

WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm

Long-term value: 191 mg/m<sup>3</sup>, 50 ppm

Sk

**71-36-3 butan-1-ol**

WEL Short-term value: 154 mg/m<sup>3</sup>, 50 ppm

Sk

**108-10-1 4-methylpentan-2-one**

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm

Long-term value: 208 mg/m<sup>3</sup>, 50 ppm

Sk, BMGV

## Trade name: VEMASHIELD EPOXY PRIMER Part A

· Regulatory information WEL: EH40/2020

· DNELs

### ATE (Acute Toxicity Estimates)

Inhalative DNELs >67.7-78.3 mg/m<sup>3</sup>

### 1330-20-7 xylene

Inhalative DNELs 11 mg/m<sup>3</sup> (ATE)

· Ingredients with biological limit values:

### 1330-20-7 xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

### 108-10-1 4-methylpentan-2-one

BMGV 20 µmol/L

Medium: urine

Sampling time: post shift

Parameter: 4-methylpentan-2-one

· 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.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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

· 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:

Fluid

Colour:

According to product specification

## Trade name: VEMASHIELD EPOXY PRIMER Part A

- 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: 110-111 °C (108-88-3 toluene)
- **Flash point:** < 23 °C
- **Flammability** Highly flammable.
- **Autoignition temperature:** 535 °C (108-88-3 toluene)
- 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: Not determined
  - Upper: Not determined
- **Vapour pressure:** Not determined
- **Density at 20 °C:** 1.57 g/cm<sup>3</sup>
- Relative density Not determined
- Vapour density Not determined
- Evaporation rate Not determined
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined
- **Viscosity:**
  - Dynamic: Not determined
  - Kinematic at 20 °C: 115 s (DIN 53211/4)
- **Solvent content:**
  - Organic solvents: 24.2 %
  - VOC (EC) 330.0 g/l
  - Solids content (volume): 75.0 %
- **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.
- **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)**
    - Oral LD50 23,700 mg/kg (rat)
    - Dermal LD50 30,453 mg/kg
  - 7779-90-0 trizinc bis(orthophosphate)**
    - Oral LD50 >5,000 mg/kg (rat)
  - 13463-67-7 titanium dioxide**
    - Oral LD50 >20,000 mg/kg (rat)
    - Dermal LD50 >10,000 mg/kg (rabbit)
    - Inhalative LC50/4 h >6.82 mg/l (rat)
  - 1330-20-7 xylene**
    - Oral LD50 4,300 mg/kg (rat)

**Trade name: VEMASHIELD EPOXY PRIMER Part A**

Dermal LD50 2,000 mg/kg (rabbit)

**108-88-3 toluene**

Oral LD50 5,000 mg/kg (rat)

Dermal LD50 12,124 mg/kg (rabbit)

Inhalative LC50/4 h 5,320 mg/l (mouse)

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

Oral LD50 >6,800 mg/kg (rat)

Dermal LD50 >3,400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

**71-36-3 butan-1-ol**

Oral LD50 790 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

Inhalative LC50/4 h 8,000 mg/l (rat)

**108-10-1 4-methylpentan-2-one**

Oral LD50 2,080 mg/kg (rat)

Dermal LD50 16,000 mg/kg (rab)

Inhalative LC50/4 h 11 mg/l (ATE)  
8.3-16.6 mg/l (rat)

**1314-13-2 zinc oxide**

Oral LD50 >5,000 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation  
Causes skin irritation.
- Serious eye damage/irritation  
Causes serious eye damage.
- Respiratory or skin sensitisation  
May cause an allergic skin reaction.
- **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  
Suspected of causing cancer. Route of exposure: Inhalation.
- Reproductive toxicity  
Suspected of damaging the unborn child.
- 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.
- **Ecotoxicological effects:**
- Remark: Toxic for fish
- **Additional ecological information:**
- General notes:  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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.

Trade name: **VEMASHIELD EPOXY PRIMER Part A**

**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.

• **European waste catalogue**

- HP3 Flammable
- HP4 Irritant - skin irritation and eye damage
- HP7 Carcinogenic
- HP10 Toxic for reproduction
- HP13 Sensitising
- HP14 Ecotoxic

• **Uncleaned packaging:**

• Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

• **14.1 UN-Number**

• **ADR, IMDG, IATA**

UN1263

• **14.2 UN proper shipping name**

• **ADR**

UN1263 PAINT, ENVIRONMENTALLY HAZARDOUS  
PAINT, MARINE POLLUTANT  
PAINT

• **IMDG**

• **IATA**

• **14.3 Transport hazard class(es)**

• **ADR**



• Class

3 (F1) Flammable liquids.

• Label

3

• **IMDG**



• Class

3 Flammable liquids.

• Label

3

• **IATA**



• Class

3 Flammable liquids.

• Label

3

• **14.4 Packing group**

• **ADR, IMDG, IATA**

III

• **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: reaction  
product: bisphenol-A-(epichlorhydrin) epoxy resin (number  
average molecular weight ≤ 700)

• **Marine pollutant:**

Symbol (fish and tree)

• **Special marking (ADR):**

Symbol (fish and tree)

• **14.6 Special precautions for user**

Warning: Flammable liquids.

• Hazard identification number (Kemler code):

-

• 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



## Trade name: VEMASHIELD EPOXY PRIMER Part A

### • Transport/Additional information:

- ADR
- 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  
3  
E

- Transport category
- Tunnel restriction code
- 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 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

### • UN "Model Regulation":

## 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.

- Poisons Act
- Regulated explosives precursors  
None of the ingredients is listed.
- Regulated poisons  
None of the ingredients is listed.
- Reportable explosives precursors  
None of the ingredients is listed.
- Reportable poisons  
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 GHS05 GHS07 GHS08 GHS09

- Signal word Danger
- Hazard-determining components of labelling:  
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ )  
butan-1-ol  
toluene  
4-methylpentan-2-one
- Hazard statements  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer. Route of exposure: Inhalation.  
H361d Suspected of damaging the unborn child.  
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
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.

## Trade name: VEMASHIELD EPOXY PRIMER Part A

- Seveso category  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II  
None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))  
None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS  
None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors  
108-88-3 toluene 3
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors  
108-88-3 toluene 3
- **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  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
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.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008  
Flammable liquids  
Skin corrosion/irritation  
Serious eye damage/irritation  
Skin sensitisation  
Carcinogenicity  
Reproductive toxicity  
Hazardous to the aquatic environment - long-term (chronic)  
aquatic hazard

#### Bridging principles

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### • 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.**

Trade name: **VEMASHIELD EPOXY PRIMER 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

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

• **Product category** PC9a Coatings and paints, thinners, paint removers

• **Process category** PROC10 Roller application or brushing

• **Article category** AC7 Metal articles

• **Environmental release category**

ERC2 Formulation into mixture

ERC12c Use of articles at industrial sites with low release

• **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.

• **Used amount per time or activity** Smaller than 100 g per application.

• **Other operational conditions**

• **Other operational conditions affecting environmental exposure** Use only on hard ground.

• **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

• **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 exhaust 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.

Use product only in enclosed systems.

Ensure that suitable extractors are available on processing machines

• Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Pregnant women should strictly avoid inhalation or skin contact.

Tightly sealed goggles

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

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

Do not allow to reach sewage system.

• Soil

Prevent contamination of 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**

Not relevant for this Exposure Scenario.

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.