

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

- **1.1 Product identifier**
- **Trade name:** **VEMAR ULTRAFINE EPOXY FILLER PART A**
- Article number: 703
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Coating
- **Life cycle stages** IS Use at industrial Sites
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC9b Fillers, putties, plasters, modelling clay
- **Process category** PROC0 Other
- **Environmental release category** ERC3 Formulation into solid matrix
- **Article category** AC7 Metal articles
- **Technical function** Corrosion inhibitor
- **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

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye 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 CLP regulation.

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 1)

· Hazard pictograms



GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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

· Dangerous components:

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average	≥ 45 -<50%
NLP: 500-033-5	molecular weight \leq 700)	
Index number: 603-074-00-8	Aquatic Chronic 2, H411	
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	≥ 10 -<15%
EINECS: 271-846-8	Skin Irrit. 2, H315; Skin Sens. 1, H317	
Index number: 603-103-00-4		

· **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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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. If symptoms persist, consult a doctor. Remove contact lenses in case of eye contamination and irrigate copiously with clean water for at least 15 minutes trying to hold the eye lids open.

· **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:** Use fire extinguishing methods suitable to surrounding conditions.

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

· 5.3 Advice for firefighters

Firefighters should always use protective equipment and breathing apparatus when handling fire coming from these products

(Contd. on page 3)

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 2)

- **Special 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** Not required.
- **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).
Dispose contaminated material as waste according to item 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.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
Requirements to be met by storerooms and receptacles: No special requirements.
- **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

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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 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.

(Contd. on page 4)

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 3)

- 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:	Liquid
Colour:	Beige
Odour:	Characteristic
Odour threshold:	Not determined.

• pH-value: Not determined.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

• Flash point: > 100 °C

• Flammability (solid, gas): Not applicable.

• Decomposition temperature: Not determined.

• Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.
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: 1.43 g/cm³

Bulk density:	1,430 kg/m ³
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:	Not determined.

Solvent content:

VOC (EC)	0.0 g/l
Solids content (volume):	40.6 %

• 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.

(Contd. on page 5)

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 4)

- **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)
Inhalative LC50/4 h >409 mg/l (rat)
- Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation
May cause an allergic skin reaction.
- 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.
- **Ecotoxicological effects:**
- Remark: Toxic for fish
- **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.
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.

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**
HP4 Irritant - skin irritation and eye damage
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** UN3082

(Contd. on page 6)
GB

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 5)

• 14.2 UN proper shipping name

• ADR

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700))

• IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700))

• IATA

• 14.3 Transport hazard class(es)

• ADR



• Class

9 (M6) Miscellaneous dangerous substances and articles.

• Label

9

• IMDG, IATA



• Class

9 Miscellaneous dangerous substances and articles.

• Label

9

• 14.4 Packing group

• ADR, IMDG, IATA

III

• 14.5 Environmental hazards:

• Marine pollutant:

• Special marking (ADR):

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

Symbol (fish and tree)

• Special marking (IATA):

Symbol (fish and tree)

Symbol (fish and tree)

• 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

• Danger code (Kemler):

90

• EMS Number:

F-A,S-F

• 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

3

-

• Transport category

• Tunnel restriction code

• IMDG

5L

• Limited quantities (LQ)

Code: E1

• Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT \leq 700)), 9, III

SECTION 15: Regulatory information

• 3Z

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

None of the ingredients is listed.

(Contd. on page 7)

GB

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 6)

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



GHS07 GHS09

- Signal word Warning
- Hazard-determining components of labelling:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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 E2 Hazardous to the Aquatic Environment
- 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
- **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
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

• **Contact:**



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

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- * Data compared to the previous version altered.

GB
(Contd. on page 8)

Trade name: VEMAR ULTRAFINE EPOXY FILLER PART A

(Contd. of page 7)

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** PC9b Fillers, putties, plasters, modelling clay
- **Process category** PROC0 Other
- **Article category** AC7 Metal articles
- **Environmental release category** ERC3 Formulation into solid matrix
- **Technical function** Corrosion inhibitor
- **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** 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.
- **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**
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.
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**
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** 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.