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Safety data sheet
according to UK REACH

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

· **1.1 Product identifier**
· **Trade name: TEAK DEFENDER BRIGHTENER**

· Article number: V1058
· UFI: HND0-N0QR-X00D-2KE5
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· Life cycle stages
IS Use at industrial Sites
PW Widespread use by professional workers
· 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 PC35 Washing and cleaning products (including solvent based products)
· Process category PROC10 Roller application or brushing
· Environmental release category ERC2 Formulation into mixture
· Article category AC11 Wood 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

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SECTION 2: Hazards identification

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


GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

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Trade name: TEAK DEFENDER BRIGHTENER

· **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

GHS05

· Signal word Danger
· Hazard-determining components of labelling:
hydrochloric acid
· Hazard statements
H314 Causes severe skin burns and eye damage.
· Precautionary statements

P260	Do not breathe dusts or mists.
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).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.
· **Dangerous components:**

EINECS: 231-595-7	hydrochloric acid	≥3-<10%
Index number: 017-002-01-X	Skin Corr. 1B, H314; Eye Dam. 1, H318	
RTECS: MW 9620000	Acute Tox. 4, H302; STOT SE 3, H335	
	Note: B	
	Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	

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

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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. Then consult a doctor.
· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **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.

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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**
During heating or in case of fire poisonous gases are produced.
· **5.3 Advice for firefighters**
Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

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Trade name: TEAK DEFENDER BRIGHTENER

· **5.6 Fire and explosion Hazards**
· **Speial protective equipment and fire fighting procedures:**
Mouth respiratory protective device.
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**
Mount respiratory protective device.
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).
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.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:** Keep respiratory protective device available.
· **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

· **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.
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.

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Trade name: TEAK DEFENDER BRIGHTENER

· Penetration time of glove material
The exact break trough 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 breakthough time of gloves is unknown for this product itself. The glove material that can be used is recommended on the baseis 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

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· Appearance:

Form:	Liquid
Colour:	Yellow
· Odour:	Odourless
· Odour threshold:	Not determined.
· **pH-value at 20 °C:**	1.5-2.5
· **Change in condition**	
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C (7732-18-5 water, distilled, conductivity or of similar purity)
· **Flash point:**	Not applicable.
· **Flammability**	Not applicable.
· **Autoignition temperature:**	N/A
· Decomposition temperature:	Not determined.
· **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 at 20 °C:**	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
· **Density at 20 °C:**	0.92452-1.09115 g/cm³
· 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 at 20 °C:	0.952 mPas
Kinematic at 20 °C:	1 mm²/s
· **Solvent content:**	
Water:	95-99 %
VOC (EC)	0.0 g/l
Solids content (volume):	0.0 %
· **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.

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Trade name: TEAK DEFENDER BRIGHTENER

· **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 18,000-90,000 mg/kg (rabbit)

hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

· Primary irritant effect:
· Skin corrosion/irritation
Causes severe skin burns and eye damage.
· Serious eye damage/irritation
Causes serious eye damage.
· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
· **Additional toxicological information:**
· CMR effects (carcinogenity, 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 prouduct 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.
· **Additional ecological information:**
· General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **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.

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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**

HP8 Corrosive

· **Uncleaned packaging:**
· Recommendation: Disposal must be made according to official regulations.
· Recommended cleansing agents: Water, if necessary together with cleansing agents.

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Trade name: TEAK DEFENDER BRIGHTENER

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1760

· **14.2 UN proper shipping name**
· **ADR** UN1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)
· **IMDG, IATA** CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID)

· **14.3 Transport hazard class(es)**
· **ADR**

· Class 8 (C9) Corrosive substances.
· Label 8

· **IMDG, IATA**

· Class 8 Corrosive substances.
· Label 8

· **14.4 Packing group**
· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:** Not applicable.

· **14.6 Special precautions for user** Warning: Corrosive substances.
· Hazard identification number (Kemler code): 80
· EMS Number: F-A,S-B
· Stowage Category B
· Stowage Code SW2 Clear of living quarters.

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

· **Transport/Additional information:**
· ADR
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· Transport category 2
· Tunnel restriction code E
· IMDG
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID), 8, II

SECTION 15: Regulatory information

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· **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.

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Trade name: TEAK DEFENDER BRIGHTENER

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

GHS05

· Signal word Danger
· Hazard-determining components of labelling:
hydrochloric acid
· Hazard statements
H314 Causes severe skin burns and eye damage.
· Precautionary statements

P260	Do not breathe dusts or mists.
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).
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.
· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
· 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
None of the ingredients is listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
· **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
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· Classification according to Regulation (EC) No 1272/2008

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

· **Contact:**

VEMAR YACHT COATINGS
HB BODY S.A. ATHENS - DIYLISTIRION AV. - GR 19300 - ASPROPYRGOS - GREECE
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· *** Data compared to the previous version altered.**

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Trade name: TEAK DEFENDER BRIGHTENER

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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** PC35 Washing and cleaning products (including solvent based products)
· **Process category** PROC10 Roller application or brushing
· **Article category** AC11 Wood articles
· **Environmental release category** ERC2 Formulation into mixture
· **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** No special measures required.
· **Other operational conditions affecting worker exposure**
Avoid contact with eyes.
Avoid contact with the skin.
· **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 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
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.
· 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 technitians only.
Not relevant for this Exposure Scenario.
· **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.