

# Epifanes Bilge Paint

One-component protecting paint for use in bilge spaces, engine rooms, etc. where a tough paint system is required. For use on steel, wood, fibreglass and aluminium in conjunction with the appropriate one-component primer system.

Type	Air drying
Base	Oil modified alkyd resins.
Colour	White and grey
Gloss	Semi gloss
Density	1.30 kg/dm <sup>3</sup>
Viscosity	120-130 seconds Din Cup 4 mm.
Solids content	55 ± 2 vol.% (dependent on colour)
Drying times at 20°C. / 65%RAH	dust dry after 3 hours, recoatable after 24 hours

Application	Airless spray	Air spray	Brush/roller
Vol.% thinner	5 - 10	15 - 20	0 - 5
Nozzle	0.011" - 0.013"	1.5 - 1.8 mm	
Pressure ( Bar )	80 - 100	2 - 3	
Visc. Din Cup 4mm	35 - 50	20 - 24	120

Thinner	
- spray application	Epifanes Spraythinner for Paint & Varnish
- brush/roller application	Epifanes Brushthinner for Paint & Varnish

Theoretical coverage	13,75 m <sup>2</sup> per litre @ 40 µm dryfilmthickness
Practicle coverage	Dependent on application methode, kind and condition of substrate, loss of material due to shape of object, circumstances during application, etc.

Recommended wetfilmthickness	70 - 80 µm, ( = 35 - 40 µm dryfilmthickness )
Application	Do not apply wet-on-wet and do not apply too high a wetfilmthickness in order to avoid the formation of curtains and drying problems

Recommended primers	Wood	Werdol Woodprimer
	Steel	Werdol Metalprimer
	Fibreglass	Epifanes Fibreglass Primer
	Aluminium	Epifanes Washprimer AQ + Epigrond Prelacquer

Substrate conditions	
- Untreated bilges	Well clean bilge with a powerful detergent. Remove all leftovers of (gas-) oil, smut , etc. by adding a suitable detergent to the bilge water that will break down biologically. Allow the mixture 1 hour before removing it. Well clean the bilge with fresh water.
- Primer coats	Well cleaned, degreased, dry, sanded and free of dust.
- Existing coats	If bilge has already been painted, remove all loose parts. Well clean, degrease and sand. Surface must be dry and free of dust.

Application guide lines	Before applying, stir thoroughly. The application and drying should occur in well ventilated areas. Always secure sufficient air circulation for supply of fresh air and disposal of solvent fumes and in order to avoid health hazards and drying problems. Avoid painting in direct sunlight or too much wind. A rapid loss of solvents will occur under these conditions and decrease the flowing ability.
-------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Application conditions	Temperature of paint, object and work area during application and drying should not be lower than 5°C. Relative air humidity should not exceed 85%. Temperatrure of object during and drying should be at least 3°C above dew point.
------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

### 1 Identification of the substance/preparation and of the company/ undertaking

- Product details
- Trade name: Epifanes Bilgepaint            all colours
- Application of the substance / the preparation  
Paint  
One component protecting paint for use in bilge spaces, engine rooms,  
etc.
- Manufacturer/Supplier:  
W.HEEREN & ZOON BV  
Postbus 166  
1430 AD Aalsmeer  
  
tel. +31-297-360366  
fax. +31-297-342078
- Further information obtainable from: Department Research & Development
- Information in case of emergency: See under Manufacturer/Supplier

### 2 Composition/information on ingredients

- Chemical characterization
- Description:  
Resin mixture  
Solvent mixture with pigment additives

- Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy ☒ Xn; R 10-65-66	26.104%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn; R 10-20/21-38	1.016%

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

### 3 Hazards identification

- Hazard description: Not applicable.
- Information concerning particular hazards for human and environment:  
The product has to be labelled due to the calculation procedure of the  
"General Classification guideline for preparations of the EU" in the  
latest valid version.  
R 10 Flammable.  
R 66 Repeated exposure may cause skin dryness or cracking.
- Classification system:  
The classification is according to the latest editions of the EU-lists,  
and extended by company and literature data.

### 4 First-aid measures

- After inhalation:  
Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:  
Rinse opened eye for several minutes under running water.
- After swallowing: Seek medical treatment.

(Contd. on page<sup>62</sup>)

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Bilgepaint all colours

(Contd. of page 1)

**5 Fire-fighting measures**

- Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:  
Water  
Water with full jet
- Protective equipment: Wear fully protective suit.

**6 Accidental release measures**

- Person-related safety precautions: Ensure adequate ventilation
- Measures for environmental protection:  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

**7 Handling and storage**

- Handling:
- Information for safe handling: Keep away from heat and direct sunlight.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:  
Protect from heat and direct sunlight.

**8 Exposure controls/personal protection**

- Additional information about design of technical facilities:  
No further data; see item 7.

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

OES	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable dust **respirable dust
-----	---------------------------------------------------------------------------------------

1330-20-7 xylene

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

- Additional information:  
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- Respiratory protection:  
Suitable respiratory protective device recommended.

(Contd. on page 3)

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Bilgepaint all colours

(Contd. of page 2)

- Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

## 9 Physical and chemical properties

- General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: > 41°C

- Ignition temperature: 240°C

- Self-igniting: Product is not selfigniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

- Vapour pressure at 20°C: 1 hPa

- Density at 20°C: 1.27 g/cm<sup>3</sup>

- Solubility in / Miscibility with water: Insoluble.

- Viscosity:

Kinematic at 20°C:	40 s (ISO 6 mm)
--------------------	-----------------

- Solvent content:

Organic solvents:	27.4 %
-------------------	--------

- Solids content: 72.6 % (VB% 1h150 C)

(Contd. on page 4)

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Bilgepaint      all colours

(Contd. of page 3)

**10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- Dangerous decomposition products:  
No dangerous decomposition products known.

**11 Toxicological information**

- Acute toxicity:

- LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

**12 Ecological information**

- General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**13 Disposal considerations**

- Product:
- 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.

**14 Transport information**

- Land transport ADR/RID (cross-border)



- ADR/RID class:            3 F1 Flammable liquids.
- UN-Number:              1263
- Packaging group:        III
- Hazard label             3
- Description of goods: 1263 PAINT

(Contd. on page 5)

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Bilgepaint all colours

(Contd. of page 4)

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT

### 15 Regulatory information

- Labelling according to EU guidelines:  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Hazard-determining components of labelling:  
Naphtha (petroleum), hydrotreated heavy
- Risk phrases:  
10 Flammable.  
66 Repeated exposure may cause skin dryness or cracking.
- Safety phrases:  
2 Keep out of the reach of children.  
7 Keep container tightly closed.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
46 If swallowed, seek medical advice immediately and show this container or label.
- Special labelling of certain preparations:  
Contains 2-butanone oxime. May produce an allergic reaction.
- National regulations:
- Technical instructions (air):
 

Class	Share in %
II	1.2
III	0.3
- Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 16 Other information

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

(Contd. on page 6)

Material Safety Data Sheet  
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Bilgepaint      all colours

(Contd. of page 5)

## • Relevant R-phrases

10      Flammable.

20/21 Harmful by inhalation and in contact with skin.

38      Irritating to skin.

65      Harmful: may cause lung damage if swallowed.

66      Repeated exposure may cause skin dryness or cracking.

• Department issuing MSDS: Department Research &amp; Development

• Contact: T.J.H.M. van Steenes

GB