

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

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

- 1.1 Product identifier
- Trade name: Epifanes Waterline Paint (all colours)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
n.a.
- Sector of Use  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU21 Consumer uses: Private households / general public / consumers
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC10 Roller application or brushing
- Environmental release category  
ERC5 Use at industrial site leading to inclusion into/onto article  
ERC8c Widespread use leading to inclusion into/onto article (indoor)  
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category  
AC11 Wood articles  
AC7 Metal articles
- Application of the substance / the mixture  
See our technical datasheet for application of this product.  
onecomponent finish
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
W.Heeren & Zoon bv.  
P.O. box 166  
1430 AD Aalsmeer  
Netherlands  
tel.+31-(0)297-360366  
email: r&d@epifanes.nl
- Further information obtainable from: Research & Development.
- 1.4 Emergency telephone number:  
W.Heeren & Zoon bv. tel: +31 297 360678, E-mail: rend@epifanes.nl  
Office hours: weekdays from 08:00 to 17:00.  
The National Poisons Information Service; dial 111  
Solely intended to inform professionals in acute poisoning!

**SECTION 2: Hazards identification**

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



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 1)

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02



GHS07

- Signal word Warning
- Hazard-determining components of labelling:  
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatics. (Note-P)  
Cobalt bis(2-ethylhexanoate)
- Hazard statements  
H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.
- Precautionary statements  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:  
EUH066 Repeated exposure may cause skin dryness or cracking.  
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
Contains cobalt carboxylate, can cause an allergic reaction.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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

- 3.2 Mixtures
- Description:  
Resin mixture  
Solvent mixture with pigment additives

(Contd. on page 3)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 2)

· Dangerous components:		
CAS: 64742-48-9 EC number: 919-857-5 Index number: 649-327-00-6 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatics. (Note-P) ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ STOT SE 3, H336	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	≤2.5%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	Zirconium 2-ethylhexanoate ⚠ Repr. 2, H361d	≤0.5%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10	propylidynetrimethanol ⚠ Repr. 2, H361fd	<0.3%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	Cobalt bis(2-ethylhexanoate) ⚠ Repr. 1B, H360F ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Eye Irrit. 2, H319; Skin Sens. 1A, H317	≥0.1-<0.25%

## · Additional information:

Note P: The substance does not have to be classified as a carcinogen or mutagen as can be shown that the substance contains less than 0.1% (w / w) benzene (EINECS No 200-753-7.). This note applies only to certain complex oil-derived substances in Part 3.

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.  
Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed  
No further relevant information available.

(Contd. on page 4)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 3)

- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

**SECTION 5: Firefighting measures**

- 5.1 Extinguishing media  
Suitable extinguishing agents:  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture  
During heating or in case of fire poisonous gases are produced.  
No further relevant information available.
- 5.3 Advice for firefighters  
Protective equipment: Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures  
Ensure adequate ventilation  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:  
Prevent seepage into sewage system, workpits and cellars.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to 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:  
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: No special requirements.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions: Keep container tightly sealed.

(Contd. on page 5)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 4)

· 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:

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
-----	--

136-52-7 Cobalt bis(2-ethylhexanoate)

WEL	Long-term value: 0.1 mg/m <sup>3</sup> as Co; Carc, Sen
-----	--

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
-----	--

136-52-7 Cobalt bis(2-ethylhexanoate)

WEL	Long-term value: 0.1 mg/m <sup>3</sup> as Co; Carc, Sen
-----	--

· Regulatory information WEL: EH40/2020

· DNEL (Derived No Effect Level) voor professionals

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, &lt; 2% aromatics. (Note-P)

Oral	Long-term - systemic effects.	125 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	185 mg/m <sup>3</sup> (General population)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal	Long-term systemic effects.	796 mg//kg/day (Employees)
Inhalative	Short term - local effects.	550 mg/m <sup>3</sup> (Employees)
	Long-term - systemic effects.	275 mg/m <sup>3</sup> (Employees)

22464-99-9 Zirconium 2-ethylhexanoate

Dermal	Long-term - systemic effects.	6.49 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	32.97 mg/m <sup>3</sup> (Employees)

77-99-6 propylidynetrimethanol

Oral	Long-term - systemic effects.	0.34 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	0.58 mg/m <sup>3</sup> (General population)

136-52-7 Cobalt bis(2-ethylhexanoate)

Inhalative	Long-term - local effects.	0.037 mg/m <sup>3</sup> (General population)
	Long-term - systemic effects.	0.2351 mg/m <sup>3</sup> (Employees)

(Contd. on page 6)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 5)

· DNEL (Derived No Effect Level) for general audience		
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatics. (Note-P)		
Dermal	Long-term - systemic effects.	208 mg/kg bw/day (Employees)
Inhalative	Long-term - systemic effects.	871 mg/m <sup>3</sup> (Employees)
	Long term - systemic effects.	125 mg/kg bw/day (General population)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	Long-term systemic effects.	36 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	320 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	33 mg/m <sup>3</sup> (General population)
22464-99-9 Zirconium 2-ethylhexanoate		
Oral	Long-term systemic effects.	4.51 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	3.25 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	8.13 mg/m <sup>3</sup> (General population)
77-99-6 propylidynetrimethanol		
Dermal	Long-term - systemic effects.	0.94 mg/kg bw/day (Employees)
Inhalative	Long-term - systemic effects.	3.3 mg/m <sup>3</sup> (Employees)
	Long term - systemic effects.	0.34 mg/kg bw/day (General population)
136-52-7 Cobalt bis(2-ethylhexanoate)		
Oral	Long-term systemic effects.	0.0558 mg/kg bw/day (General population)
· PNECs		
108-65-6 2-methoxy-1-methylethyl acetate		
Sewage treatment plant	100 mg/l (Sewage treatment plant)	
Aquatic compartment.	0.635 mg/l (Freshwater)	
Aquatic compartment.	0.0635 mg/l (Seawater)	
Soil	3.29 mg/kg (Freshwater)	
Intermittent	6.35 mg/l (Intermittent)	
Soil	0.29 mg/kg (soil)	
Sediment	0.329 mg/kg (Seawater)	
136-52-7 Cobalt bis(2-ethylhexanoate)		
Aquatic compartment.	0.00051 mg/l (Freshwater)	
Aquatic compartment.	0.00236 mg/l (Seawater)	
STP	0.37 mg/l (Segmentation, Targeting and Positioning)	
Soil	9.5 mg/kg (Freshwater)	
Soil	7.9 mg/kg (soil)	
Sediment	9.5 mg/kg (Seawater)	

(Contd. on page 7)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 6)

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- Respiratory protection:  
In case of short or low load, breathing filter device; in the case of intensive or prolonged exposure, use a breathing apparatus independent of the surrounding air. A half-face mask for organic vapours and solvents according to EN140 type A1 or A2 is recommended.
- Hand protection



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 of a maximum of 15 minutes gloves made of the following materials are suitable:  
Butyl rubber, BR
- As protection from splashes gloves made of the following materials are suitable:  
Chloroprene; handglove thickness >0.7mm, penetration time >60min. according EN374.  
Nitrilrubber; handglove thickness >0.3mm, penetration time >60min. according EN374.
- Eye/face protection



Tightly sealed goggles

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 7)

**SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
  - General Information
  - Physical state Fluid
  - Colour: According to product specification
  - Odour: Characteristic
  - Odour threshold: Not determined.
  - Melting point/freezing point: Undetermined.
  - Boiling point or initial boiling point and boiling range 154 °C (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatics. (Note-P))
  - Flammability Not applicable.
  - Lower and upper explosion limit
    - Lower: 0.6 Vol %
    - Upper: 7 Vol %
  - Flash point: 40 °C
  - Auto-ignition temperature: Product is not selfigniting.
  - Decomposition temperature: Not determined.
  - pH Not determined.
  - Viscosity:
  - Kinematic viscosity at 20 °C 40 s (ISO 6 mm)
  - Dynamic: Not determined.
  - Solubility
  - water: Fully miscible.
  - Partition coefficient n-octanol/water (log value) Not determined.
  - Vapour pressure: Not determined.
  - Density and/or relative density
    - Density at 20 °C: 0.988 g/cm<sup>3</sup> (ISO 2811)
    - Relative density Not determined.
    - Vapour density Not determined.
- 9.2 Other information
  - Appearance:
  - Form: Fluid
  - Important information on protection of health and environment, and on safety.
  - Ignition temperature: 240 °C
  - Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - Solvent content:
  - Organic solvents: 29.9 %
  - VOC content: 29.93 %
  - VOC content: 295.7 g/l / 2.47 lb/gal
  - Solids content: 70.1 % (SC% 1h 150C)
  - Change in condition
  - Evaporation rate Not determined.

(Contd. on page 9)



Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 8)

- Information with regard to physical hazard classes
- Explosives Void
- Flammable gases Void
- Aerosols Void
- Oxidising gases Void
- Gases under pressure Void
- Flammable liquids Flammable liquid and vapour.
- Flammable solids Void
- Self-reactive substances and mixtures Void
- Pyrophoric liquids Void
- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

**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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity

- LD/LC50 values relevant for classification:

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg bw (rat)
Dermal	Long-term exposure (8 hours TWA): 50 ppm	550 mg/m <sup>3</sup> (Occupational exposure limits)
Inhalative	LC50/4 h	35.7 mg/l (rat)

77-99-6 propylidynetrimethanol

Oral	LD50	14,100 mg/kg bw (rat)
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(Contd. on page 10)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 9)

136-52-7 Cobalt bis(2-ethylhexanoate)

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

- Respiratory or skin sensitisation May cause an allergic skin reaction.
- STOT-single exposure May cause drowsiness or dizziness.
- 11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

108-65-6 2-methoxy-1-methylethyl acetate

EC50	408-500 mg/l (daphnia magna) (48 uur/hour)
IC 50	>1,000 mg/l (Algae, Growth inhibition test) (72 uur/hour)
LC50	100-180 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

136-52-7 Cobalt bis(2-ethylhexanoate)

LC50	0.1-1 mg/l (Fish Acute Toxicity Study)
EC50	0.1-1 mg/l (daphnia magna)
EC50	0.1-1 mg/l (Algae, Growth inhibition test)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties  
The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- 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.

**SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

(Contd. on page 11)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)


Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)


(Contd. of page 10)

- Recommended cleansing agents:  
Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- 14.1 UN number or ID number  
· ADR, IMDG, IATA UN1263
- 14.2 UN proper shipping name  
· ADR 1263 PAINT  
· IMDG, IATA PAINT
- 14.3 Transport hazard class(es)  
· ADR  

  - Class 3 (F1) Flammable liquids.
  - Label 3

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  - IMDG, IATA  

    - Class 3 Flammable liquids.
    - Label 3
- 14.4 Packing group  
· ADR, IMDG, IATA III
- 14.5 Environmental hazards:  
· Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.  
· Hazard identification number (Kemler code): 30  
· EMS Number: F-E, S-E  
· Stowage Category A
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- Transport/Additional information:  


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  - 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

(Contd. on page 12)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 11)

· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	Packaging <450L: exemption viscous substances according to 2.2.3.1.5 > 450 l: 3 F1, III
<hr/>	
· IMDG	
· 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
· Remarks:	> 450 l: 3, III
· UN "Model Regulation":	UN 1263 PAINT, 3, III

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Seveso category P5c **FLAMMABLE LIQUIDS**
  - Qualifying quantity (tonnes) for the application of lower-tier requirements  
5,000 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements  
50,000 t
  - National regulations:
  - Technical instructions (air):
- | Class | Share in % |
|-------|------------|
| NK    | 25-50      |
- Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - 15.2 Chemical safety assessment:  
A Chemical Safety Assessment has not been carried out.

**SECTION 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.

- Relevant phrases  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

(Contd. on page 13)

Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 04.02.2022

Version number 10 (replaces version 9)

Revision: 04.02.2022

Trade name: Epifanes Waterline Paint (all colours)

(Contd. of page 12)

H360F May damage fertility.  
H361d Suspected of damaging the unborn child.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

- Department issuing SDS: Research & Development.
- Contact: J.J. van Dijk, tel: +31 297 360678, email: rend@epifanes.nl
- Abbreviations and acronyms:
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord relatif au transport international 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)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 3: Flammable liquids - Category 3
  - Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
  - Skin Sens. 1: Skin sensitisation - Category 1
  - Skin Sens. 1A: Skin sensitisation - Category 1A
  - Repr. 1B: Reproductive toxicity - Category 1B
  - Repr. 2: Reproductive toxicity - Category 2
  - Repr. 2: Reproductive toxicity - Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
  - Asp. Tox. 1: Aspiration hazard - Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1
- \* Data compared to the previous version altered.