

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

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

- 1.1 Product identifier
- Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
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
PROC7 Industrial spraying
- 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.
base component of a two-component yacht paint
- 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

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Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 1)

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Additional information: For professional use only.

- 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:
Reaction mass of bis(1,2,2,6,6-pentamethyl-4 piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate isobutyl methacrylate 2-hydroxyethyl methacrylate
- Hazard statements
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
- 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:
For professional use only.
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 Isobutylmethacrylate. May cause an allergic reaction.
Contains 2-Hydroxyethyl methacrylate and Methyl methacrylate. May cause an allergic reaction.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.

(Contd. on page 3)

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

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Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 2)

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

· Dangerous components:

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	10-25%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336 EUH066	10-25%
CAS: 623-84-7 EINECS: 210-817-6 Reg.nr.: 01-2119892736-20	propane-1,2-diyl diacetate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥2.5-<10%
CAS: 127519-17-9 ELINCS: 407-000-3 Index number: 607-281-00-4 Reg.nr.: 01-0000015648-61	A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl] propionates ⚠ Aquatic Chronic 2, H411	≥0.25-<2.5%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40-0000	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Skin Sens. 1A, H317	≥0.25-≤0.5%
CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10	propylidynetrimethanol ⚠ Repr. 2, H361fd	<0.3%
CAS: 97-86-9 EINECS: 202-613-0 Index number: 607-113-00-X Reg.nr.: 01-2119488331-38	isobutyl methacrylate ⚠ Flam. Liq. 3, H226 ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317; STOT SE 3, H335	≥0.1-<0.3%

(Contd. on page 4)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 3)

CAS: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X Reg.nr.: 01-2119490169-29	2-hydroxyethyl methacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥0.1-<0.3%
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- 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.
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.
- 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:
CO₂, 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
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.

(Contd. on page 5)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 4)

- 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.
- 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 ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm

- Regulatory information WEL: EH40/2020

(Contd. on page 6)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 5)

· DNEL (Derived No Effect Level) voor professionals		
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 ³ (Employees)
	Long-term - systemic effects.	275 mg/m ³ (Employees)
123-86-4 n-butyl acetate		
Dermal	Short-term - systemic effects.	11 mg/kg (Employees)
Inhalative	Long-term - systemic effects.	11 mg/kg/day (Employees)
	Long-term - local effects.	300 mg/m ³ (Employees)
	Short-term systemic effects.	600 mg/m ³ (Employees)
	Short term - local effects.	600 mg/m ³ (Employees)
	Long-term - systemic effects.	300 mg/m ³ (Employees)
127519-17-9 A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl] propionates		
Oral	Long-term - systemic effects.	0.42 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	3.5 mg/m ³ (General population)
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 ³ (General population)
· DNEL (Derived No Effect Level) for general audience		
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 ³ (General population)
123-86-4 n-butyl acetate		
Oral	Long-term systemic effects.	2 mg/kg bw/day (General population)
Dermal	Short-term - systemic effects.	6 mg/kg bw/day (General population)
	Long-term - systemic effects.	6 mg/kg bw/day (General population)
	Long-term - local effects.	35.7 mg/m ³ (General population)
Inhalative	Short-term - systemic effects.	6 mg/kg (General population)
	Long-term - systemic effects.	35.7 mg/m ³ (General population)
	Short-term - systemic effects.	300 mg/kg (General population)
	Short-term - local effects.	300 mg/m ³ (General population)

(Contd. on page 7)

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

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Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 6)

623-84-7 propane-1,2-diyl diacetate		
Oral	Long-term systemic effects.	2.5 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	25 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	117 mg/m ³ (General population)
127519-17-9 A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl] propionates		
Dermal	Long-term - systemic effects.	0.83 mg/kg bw/day (Employees)
Inhalative	Long-term - systemic effects.	7 mg/m ³ (Employees)
	Long term - systemic effects.	0.42 mg/kg bw/day (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 ³ (Employees)
	Long term - systemic effects.	0.34 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)
123-86-4 n-butyl acetate	
Aquatic compartment.	0.18 mg/l (Freshwater)
Aquatic compartment.	0.018 mg/l (Seawater)
STP	35.6 mg/l (Segmentation, Targeting and Positioning)
Soil	0.981 mg/kg (Freshwater)
Intermittent	0.36 mg/l (Intermittent)
Soil	0.0903 mg/kg (soil)
Sediment	0.0981 mg/kg (Seawater)
623-84-7 propane-1,2-diyl diacetate	
PNEC (Bodem)	0.0678 mg/kg dwt (soil)
Sewage treatment plant	100 mg/l (Sewage treatment plant)
Aquatic compartment.	0.082 mg/l (Freshwater)
Aquatic compartment.	0.0082 mg/l (Seawater)
STP	100 mg/l (Segmentation, Targeting and Positioning)

(Contd. on page 8)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 7)

Soil	0.579 mg/kg (Freshwater)
Intermittent	0.82 mg/l (Intermittent)
Soil	0.0678 mg/kg (soil)
Sediment	0.0579 mg/kg (Seawater)
127519-17-9 A mixture of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethyl-ethyl)-4-hydroxyphenyl] propionates	
Sewage treatment plant	10 mg/l (Sewage treatment plant)
Aquatic compartment.	0.03 mg/l (Freshwater)
Aquatic compartment.	0.03 mg/l (Seawater)
Aquatic compartment - sediment in freshwater	364.8 mg/kg sed dw (Freshwater)
Aquatic compartment - sediment in marine water	26.5 mg/kg sed dw (Seawater)
Soil	53 mg/kg (soil)

- 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:
Suitable respiratory protective device recommended.
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.
Filter AX
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.

(Contd. on page 9)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 8)

- 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 gloves made of the following materials are suitable:
PE gloves, recommended film thickness:> 0.7 mm.
For a touch of 30-120 minutes: gloves made of PVA, recommended material thickness: 0.7 mm.
- 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:
Gloves of nitrile rubber, recommended material thickness:> 0.3 mm,
neoprene or butyl rubber, recommended material thickness:> 0.4 mm.
- Eye/face protection



Tightly sealed goggles

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: 124-128 °C (123-86-4 n-butyl acetate)
- Flammability: Not applicable.
- Lower and upper explosion limit
- Lower: 1.2 Vol % (123-86-4 n-butyl acetate)
- Upper: 10.8 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)
- Flash point: 25 °C
- Auto-ignition temperature: Product is not selfigniting.
- Decomposition temperature: Not determined.
- pH: Not determined.
- Viscosity:
- Kinematic viscosity at 20 °C: 30 s (ISO 6 mm)
- Dynamic: Not determined.
- Solubility
- water: Fully miscible.
- Partition coefficient n-octanol/water (log value): Not determined.
- Vapour pressure at 20 °C: 10.7 hPa (123-86-4 n-butyl acetate)

(Contd. on page 10)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 9)

· Density and/or relative density	
· Density at 20 °C:	1.45467 g/cm ³
· 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:	315 °C (108-65-6 2-methoxy-1-methylethyl acetate)
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	27.0 %
· VOC content:	27.01 %
	VOC content:
	392.9 g/l / 3.28 lb/gal
· Solids content:	55.6 % (SC % 1h 150C)
· Change in condition	
· Evaporation rate	Not determined.
· 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.

(Contd. on page 11)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 10)

- 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 ³ (Occupational exposure limits)
Inhalative	LC50/4 h	35.7 mg/l (rat)

123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg bw (rat)
Dermal	LD50	>5,000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)

623-84-7 propane-1,2-diyl diacetate

Oral	LD50	5,000 mg/kg bw (rat)
Dermal	LD50	2,000 mg/kg bw (rab)

77-99-6 propylidynetrimethanol

Oral	LD50	14,100 mg/kg bw (rat)
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97-86-9 isobutyl methacrylate

Oral	LD50	11,990 mg/kg bw (mouse)
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868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	5,050 mg/kg bw (rat)
------	------	----------------------

- 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)

(Contd. on page 12)

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

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Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 11)

- 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
- Remark: Harmful to 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.
Harmful to aquatic organisms

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.
- 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.

(Contd. on page 13)

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


Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 12)

· Label	3
· 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:	
· 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
· Transport category	3
· Tunnel restriction code	D/E
· 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
· 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

(Contd. on page 14)

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

Printing date 04.02.2022

Version number 13 (replaces version 12)

Revision: 04.02.2022

Trade name: Epifanes Poly-urethane Yacht paint comp. A (all colours)

(Contd. of page 13)

- 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 2 (Self-assessment): 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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
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.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
- 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
Skin Irrit. 2: Skin corrosion/irritation - Category 2

(Contd. on page 15)

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(Contd. of page 14)

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 2: Reproductive toxicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.