

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

Printing date 04.02.2022

Version number 14 (replaces version 13)

Revision: 04.02.2022

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

- 1.1 Product identifier
- Trade name: Epifanes Mono-urethane Yacht paint (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)
 - 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
 - AC7 Metal articles
 - AC11 Wood articles
- Application of the substance / the mixture
See our technical datasheet for application of this product.
One-component pigmented 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.

STOT SE 3 H336 May cause drowsiness or dizziness.

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- 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

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· 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	10-25%
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	propylidynetrimechanol ⚠ 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.
- 4.3 Indication of any immediate medical attention and special treatment needed
If swallowed, gastric irrigation with added, activated carbon.

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* **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray.
- 5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
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
Keep away from ignition sources.
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:
Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Store in dry conditions.
Keep container tightly sealed.

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- 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:

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

WEL	Long-term value: 0.1 mg/m ³ as Co; Carc, Sen
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136-52-7 Cobalt bis(2-ethylhexanoate)

WEL	Long-term value: 0.1 mg/m ³ as Co; Carc, Sen
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- Regulatory information WEL: EH40/2020

- DNEL (Derived No Effect Level) voor professionals

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

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

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 ³ (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 ³ (General population)

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

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

- 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 ³ (Employees)
	Long term - systemic effects.	125 mg/kg bw/day (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 ³ (General population)

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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)

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

Oral	Long-term systemic effects.	0.0558 mg/kg bw/day (General population)
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· PNECs

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)

- 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.

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· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.1 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:	210 °C
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent separation test:	n.v.t. %
· Solvent content:	
· Organic solvents:	26.8 %
· VOC content:	25.78 %
	VOC content:
	283.6 g/l / 2.37 lb/gal
· Solids content:	73.2 % (VB% 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.

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- 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:

77-99-6 propylidynetrimethanol

Oral	LD50	14,100 mg/kg bw (rat)
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136-52-7 Cobalt bis(2-ethylhexanoate)

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

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

LC50	0.1-1 mg/l (Fish Acute Toxicity Study)
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EC50	0.1-1 mg/l (daphnia magna)
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EC50	0.1-1 mg/l (Algae, Growth inhibition test)
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- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential Non significant accumulation in organisms
- 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: Harmless to algae up to the tested concentration.
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
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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.

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:
Solvent naphtha
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
- 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

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· EMS Number:	F-E, <u>S-E</u>
· 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
· Remarks:	Packaging <450L: exemption viscous substances according to 2.2.3.1.5 > 450 l: 3 F1, III
· 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 2 (Self-assessment): hazardous for water.

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- 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.
- 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.