

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 Teak Oil Sealer
- 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 AC11 Wood articles
- Application of the substance / the mixture  
See our technical datasheet for application of this product.  
Impregnating oil
- 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.



health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



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Skin Sens. 1 H317 May cause an allergic skin reaction.  
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 GHS08

- Signal word Danger
- 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.  
H304 May be fatal if swallowed and enters airways.
- 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.  
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 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	25-50%
CAS: 22464-99-9 EINECS: 245-018-1 Reg.nr.: 01-2119979088-21	Zirconium 2-ethylhexanoate ----- ⚠ Repr. 2, H361d	≤1%
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  
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.

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- 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:  
Store only in the original receptacle.
- 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.

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**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 <sup>3</sup> as Co; Carc, Sen
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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)

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)

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)

· DNEL (Derived No Effect Level) for general audience

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, &lt; 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)

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)

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)

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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:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- 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.  
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.
- 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:  
Cloropene; handglove thickness >0.7mm, penetration time >60min. according EN374.  
Nitrilrubber; handglove thickness >0.3mm, penetration time >60min. according EN374.

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- 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

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:

45 °C

· Auto-ignition temperature:

Product is not selfigniting.

· Decomposition temperature:

Not determined.

· pH

Not determined.

· Viscosity:

· Kinematic viscosity at 20 °C

14 s (DIN 53211/4)

· 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:

0.88672 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.

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- Solvent content:
- Organic solvents: 38.2 %
- VOC content: 38.17 %
- VOC content:  
338.5 g/l / 2.82 lb/gal
- Solids content: 61.8 % (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.
- 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:

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)	
<ul style="list-style-type: none"> <li>Respiratory or skin sensitisation May cause an allergic skin reaction.</li> <li>STOT-single exposure May cause drowsiness or dizziness.</li> <li>Aspiration hazard May be fatal if swallowed and enters airways.</li> <li>11.2 Information on other hazards</li> </ul>			
<ul style="list-style-type: none"> <li>Endocrine disrupting properties</li> </ul>			
98-54-4	4-tert-butylphenol		List I, II
128-37-0	Butylated hydroxytoluene		List II

**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)

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  
For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- 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.

**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.

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**SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1263
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1263 PAINT PAINT
· 14.3 Transport hazard class(es) · ADR	
	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 D/E

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- 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
- 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.
  - 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.
  - 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

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· **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  
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.