

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

Printing date 05.12.2022

Version number 37 (replaces version 36)

Revision: 02.12.2022

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

- 1.1 Product identifier
- Trade name: Epifanes Clear Varnish
- 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)
- Article category AC11 Wood articles
- Application of the substance / the mixture
See our technical datasheet for application of this product.
clear varnish
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
Oosteinderweg 32
1432 AL Aalsmeer
Netherlands
tel.+31 297-360366
email: info@epifanes.nl
- Importer:
ATL Composites
12-14 Production Ave.
QLD 4214 Molendinar
Telephone
+61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)
- Further information obtainable from: Research & Development.
- 1.4 Emergency telephone number: +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

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.



STOT SE 3 H336 May cause drowsiness or dizziness.

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

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



GHS02 GHS07

Signal word Warning

Hazard-determining components of labelling:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)

Hazard statements

H226 Flammable liquid and vapour.

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:

EUH066 Repeated exposure may cause skin dryness or cracking.

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: Mixture of substances listed below with nonhazardous additions.

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, isoalkanes, cyclic, < 2% aromatics. (Note-P) Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336	25-50%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	≤2.5%

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CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8 Reg.nr.: 01-2119489419-21	4-tert-butylphenol ⚠ Repr. 2, H361f ⚠ Eye Dam. 1, H318 ⚠ Aquatic Chronic 1, H410 ⚠ Skin Irrit. 2, H315	≥0.025-<0.25%
CAS: 140-66-9 EINECS: 205-426-2 Index number: 604-075-00-6 Reg.nr.: 01-2119541687-29	4-(1,1,3,3-tetramethylbutyl)phenol ⚠ Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Aquatic Chronic 1, H410 (M=10) ⚠ Skin Irrit. 2, H315	≥0.025-<0.25%

· SVHC

98-54-4	4-tert-butylphenol
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol

· 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; consult doctor in case of complaints.
- After skin contact: 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
No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

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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.
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:

34590-94-8 Dipropylene glycol monomethyl ether

WEL	Long-term value: 308 mg/m ³ , 50 ppm Sk
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34590-94-8 Dipropylene glycol monomethyl ether

WEL	Long-term value: 308 mg/m ³ , 50 ppm Sk
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- Regulatory information WEL: EH40/2020

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· DNEL (Derived No Effect Level) voor professionals		
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)		
Dermal	Long-term - systemic effects.	77 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	871 mg/m ³ (Employees)
34590-94-8 Dipropylene glycol monomethyl ether		
Dermal	Long-term - systemic effects.	283 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	308 mg/m ³ (Employees)
98-54-4 4-tert-butylphenol		
Dermal	Long-term - systemic effects.	0.071 mg/kg/day (Employees)
Inhalative	Long-term - systemic effects.	0.5 mg/m ³ (Employees)
140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol		
Dermal	Acute / short-term - systemic effects.	33 mg/kg bw/day (Employees)
	Long-term systemic effects.	11.3 mg//kg/day (Employees)
Inhalative	Acute / short-term - systemic effects.	2.4 mg/m ³ (Employees)
	Long-term - systemic effects.	0.8 mg/m ³ (Employees)
· DNEL (Derived No Effect Level) for general audience		
64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P)		
Oral	Long-term systemic effects.	46 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	46 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	185 mg/m ³ (General population)
34590-94-8 Dipropylene glycol monomethyl ether		
Oral	Long-term systemic effects.	36 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	121 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	37.2 mg/m ³ (General population)
98-54-4 4-tert-butylphenol		
Oral	Long-term systemic effects.	0.026 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects.	0.026 mg/kg bw/day (General population)
Inhalative	Long-term - systemic effects.	0.09 mg/m ³ (General population)
140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol		
Oral	Long-term systemic effects.	0.1 mg/kg bw/day (General population)
	Short-term - systemic effects.	0.1 mg/kg bw/day (General population)

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Dermal	Acute / short-term - systemic effects.	16.8 mg/kg bw/day (General population)
	Long-term - systemic effects.	5.6 mg/kg bw/day (General population)
Inhalative	Acute - systemic effects.	1.8 mg/m ³ (General population)
	Long-term - systemic effects.	0.6 mg/m ³ (General population)

· PNECs

34590-94-8 Dipropylene glycol monomethyl ether

Freshwater	19 mg/l (Freshwater)
Marine water	1.9 mg/l (Marine water)
Sediment (freshwater)	70.2 mg/kg sed dw (Freshwater)
Sediment (marine water)	7.02 mg/kg sed dw (Marine water)
STP	4,168 mg/l (Segmentation, Targeting and Positioning)
Soil	2.74 mg/kg (soil)

98-54-4 4-tert-butylphenol

Freshwater	0.01 mg/l (Freshwater)
Marine water	0.001 mg/l (Marine water)
Sediment (freshwater)	0.27 mg/kg sed dw (Freshwater)
Sediment (marine water)	0.027 mg/kg sed dw (Marine water)
STP	1.5 mg/l (Segmentation, Targeting and Positioning)
Soil	0.25 mg/kg (soil)

140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

Freshwater	0.001 mg/l (Marine water)
Marine water	0.001 mg/l (Marine water)
Sediment (freshwater)	4.62 mg/kg sed dw (Freshwater)
Sediment (marine water)	1.23 mg/kg sed dw (Marine water)
STP	0.1 mg/l (Segmentation, Targeting and Positioning)
Soil	2.3 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:
 - 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.

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· Boiling point or initial boiling point and boiling range	154 °C (64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, < 2% aromatics. (Note-P))
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	41 °C
· Ignition temperature:	205 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	7
· Viscosity:	
· Kinematic viscosity at 20 °C	50 s (ISO 4 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:	0.91311 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.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	40.6 %
· VOC content:	40.64 %
	VOC content:
	371.0 g/l / 3.10 lb/gal
· Solids content:	59.5 %
· 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

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- 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
Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg bw (rat)
Derma	LD50	>19,000 mg/kg bw (rabbit)
	Long-term exposure (8 hours TWA): 50 ppm	308 mg/m ³ (Occupational exposure limits)

98-54-4 4-tert-butylphenol

Oral	LD50	2,951 mg/kg bw (rat)
Derma	LD50	2,288 mg/kg bw (rabbit)

140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

Oral	LD50	3,210 mg/kg bw (mouse)
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- STOT-single exposure May cause drowsiness or dizziness.
- 11.2 Information on other hazards

- Endocrine disrupting properties

98-54-4	4-tert-butylphenol	List I, II
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140-66-9 4-(1,1,3,3-tetramethylbutyl)phenol

List I

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 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
- Remark: Harmful to fish
- 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.
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 |

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· 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

· 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

· Remarks: Packaging <450L: exemption viscous
substances according to 2.2.3.1.5

· 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

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- | | |
|--------------------------|-----------------------|
| · Remarks: | ≤ 30 l: - |
| · 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.

- Substances of very high concern (SVHC) according to UK REACH

98-54-4	4-tert-butylphenol
140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol

- 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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
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)

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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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3
* Data compared to the previous version altered.