

Printing date 24.02.2017 Version number 24 Revision: 24.02.2017

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
- · Product category PC9a Coatings and paints, thinners, paint removers
- · Process category PROC10 Roller application or brushing
- · Environmental release category

ERC2 Formulation into mixture

ERC10a Widespread use of articles with low release (outdoor)

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.

P.O. box 166

1430 AD Aalsmeer

Netherlands

tel.+31-(0)297-360366

fax +31-(0)297-342078

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

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 CLP regulation.

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P102 Keep out of reach of children.

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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.
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/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 cobaltbis(2-ethylhexanoat), 2-butanone oxime. May 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 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	25-50%
EINECS: 265-150-3	♠ Flam. Liq. 3, H226	
Index number: 649-327-00-6	♣ Asp. Tox. 1, H304	
Reg.nr.: 01-2119463258-33	_	
CAS: 1330-20-7 EINECS: 215-535-7	xylene	≤ 2.5%
Index number: 601-022-00-9	Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332;	
Reg.nr.: 01-2119488216-32	Skin Irrit. 2, H315	
CAS: 80-46-6	p-(1,1-dimethylpropyl)phenol	≤1%
EINECS: 201-280-9	Acute Tox. 4, H302	_
Reg.nr.: 01-2119971070-46		
CAS: 98-54-4	4-tert-butylphenol	≤1%
EINECS: 202-679-0	& Repr. 2, H361f	
Index number: 604-090-00-8	Eye Dam. 1, H318	
Reg.nr.: 01-2119489419-21	Skin Irrit. 2, H315	
CAS: 96-29-7 EINECS: 202-496-6	2-butanone oxime	≤0.5%
Index number: 616-014-00-0	& Carc. 2, H351 Eye Dam. 1, H318	
Reg.nr.: 01-2119539477-28	Acute Tox. 4, H312; Skin Sens. 1, H317	
CAS: 140-66-9	4-(1,1,3,3-tetramethylbutyl)phenol	≤0.5%
EINECS: 205-426-2	© Eye Dam. 1, H318	20.00
Index number: 604-075-00-6	Aquatic Acute 1, H400; Aquatic Chronic	
Reg.nr.: 01-2119541687-29	1, H410	
	Skin Irrit. 2, H315	
CAS: 136-52-7	cobalt bis(2-ethylhexanoate)	<0.3%
EINECS: 205-250-6	♠ Repr. 2, H361	
Reg.nr.: 01-2119524678-29	Aquatic Acute 1, H400; Aquatic Chronic	
	1, H410	

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· SVHC	
80-46-6	p-(1,1-dimethylpropyl)phenol
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
- \cdot General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- \cdot 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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · 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.

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.

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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:
- \cdot 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

- Additional information about design of technical facilities:
 No further data; see item 7.
- · 8.1 Control parameters

1330-20-7 xylene			
1		(Tgg)time weighted average 8 hours / Exposure time	210 mg/m ³ (Algemene bevolking/ General population)
(Tgg)time weighted average 15 442 mg/m³ (Algemene bevo		442 mg/m³ (Algemene bevolking/ General population)	
1330-20-7 xylene			
WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV			
136-	136-52-7 cobalt bis(2-ethylhexanoate)		
WEL Long-term value: 0.1 mg/m ³ as Co; Carc, Sen			

<u> </u>					
· DNELs					
64742-48-9	64742-48-9 Naphtha (petroleum), hydrotreated heavy				
Dermal	Long-term - systemic effects, worker	300 mg/kg bw/day (Werker/Worker)			
Inhalative	Long-term - systemic effects, worker	1500 mg/m³ (Werker/Worker)			
1330-20-7 x	ylene				
Dermal	Long-term - local effects, worker	180 (Werker/Worker)			
Inhalative	Acute-local effects, worker	289 mg/m³ (Werker/Worker)			
	Acute - systemic effects, worker	289 mg/m³ (Werker/Worker)			
	Long-term - local effects, worker	77 mg/m³ (Werker/Worker)			
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96-29-7 2-butanone oxime	
Inhalative Acute - systemic effects, worker	320-1000 mg/m³ (Fish Acute Toxicity Study)
PNECs	
1330-20-7 xylene	
Aquatic comparment - freshwater	0.327 mg/L (not specified)
Aquatic compartment - marine water	0.327 mg/L (not specified)
Aquatic compartment - water, intermittent releases	0.327 mg/L (not specified)
Aquatic compartment - sediment in freshwater	12.46 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	12.46 mg/kg sed dw (not specified)
Terrestrial comparment - soil	2.31 mg/kg dw (not specified)
Sewage treatment plant	6.58 mg/L (not specified)

1330-20-7 xylene

BMGV | 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

- Parameter: methyl hippuric acid · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · 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:

Not necessarily with good ventilation, however, use a filter AX when ventilation is inadequate!

· Protection of hands:

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· For the permanent contact gloves made of the following materials are suitable: nitrile rubber;

recommended glove thickness> 0.45mm. permeability / permeation time:> 480 min. according to EN 374.

 \cdot 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 >0.3 mm, penetration time >60 min. according EN374.

· Eye protection:

· Evaporation rate



Tightly sealed goggles

SECTION 9: Physical and chemical properties		
 9.1 Information on basic physical and General Information Appearance: 	d chemical properties	
Form:	Fluid	
Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value at 20 °C:	7	
 Change in condition Melting point/freezing point: Initial boiling point and boiling 	Undetermined.	
range:	150 °C	
· Flash point:	36 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	205 °C	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	0.91311 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	

Not determined.

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Not miscible or difficult to mix.
Not determined.
Not determined.
50 s (ISO 4 mm)
43.5 %
43.5 %
VOC content:
397.7 g/l / 3.32 lb/gl
57.4 %
No further relevant information available.

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.

- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- \cdot 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 toxicological effects
- Acute toxicity

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

· LD/I	· LD/LC50 values relevant for classification:		
6474	64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	l	LD50	>5000 mg/kg bw (rat)
Dern	mal	LD50	>5000 mg/kg bw (rabbit) ((24h))
Inha	alative	LC50	>5000 mg/m³ (vapour) (rat) ((8h))
1330	0-20-7 x	ylene	
Oral	l	LD50	4300 mg/kg bw (rat)
Dern	mal	LD50	2000 mg/kg bw (rabbit)
98-5	98-54-4 4-tert-butylphenol		
Oral	L	LD50	2951 mg/kg bw (rat)
Dern	mal	LD50	2288 mg/kg bw (rabbit)
96-2	96-29-7 2-butanone oxime		
Oral	L	LD50	3700 mg/kg bw (rat)
Dern	mal	LD50	200-2000 mg/kg bw (rat)
Inha	alative	LC50/4 h	20 mg/l (rat)

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140-66-	9 4- (1,1,3,3-tetrar	methylbutyl)phenol	
Oral	LD50	3210 mg/kg bw (mouse)	
136-52-	7 cobalt bis(2-ethy	lhexanoate)	
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50 (Konijn)	5000 mg/kg (rabbit)	

- · Primary irritant effect:
- · Skin corrosion/irritation

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

- · Serious eye damage/irritation
- Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity
 - Based on available data, the classification criteria are not met.
- · Carcinogenicity
 - Based on available data, the classification criteria are not met.
- · Reproductive toxicity
 - Based on available data, the classification criteria are not met.
- · STOT-single exposure
 - Based on available data, the classification criteria are not met.
- · STOT-repeated exposure
 - Based on available data, the classification criteria are not met.
- · Aspiration hazard
 - Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

64742-48-9 Napht	ha (petroleum), hydrotreated heavy	
ErL (72h) >1000 mg/l (Pseudokirchneriella subcapitata-OECD 201)		
EL50 (48h)	>1000 mg/l ((Daphnia magna-OECD 202))	
LL50 (96h)	>1000 mg/l ((Onorhynchus mykiss OECD 203))	
EbL50 (72h)	>1000 mg/l (Pseudokirchneriella subcapitata-OECD 201)	
NOELR (72h)	3 mg/l ((Pseudo. subcapitata-biomass-OECD 201))	
	100 mg/l ((Pseudo. subcap. growth rate OECD 201))	
1330-20-7 xylene		
EC50	1 mg/l (daphnia magna) (48 uur/hour)	
LC50	13.5-2.6 mg/l (Fish Acute Toxicity Study) (96 uur/hour)	
96-29-7 2-butanone oxime		
LC50 (96 hours)	320-1000 mg/l (fish 1) (LEUCISCUS IDUS; STATISCH SYSTEM)	
48 mg/l (fish 2) (LEPOSMIS MACEOCHIRUS; STATISCH SYSTEM)		
LC50 (48 hours)	s) 750 mg/l (other waterspecies 1)	
EC50 (48 hours)	500 mg/l (daphnia magna)	
	750 mg/l (Daphnia similis Acute Toxicity Study) (DAPHNIA MAGNA)	
EC50 (72 hours)	83 mg/l (other waterspecies 2) (SCENEDESMUS SUBSPICATUS)	
EC50	630 mg/l (other waterspecies 1) (BACTERIA; TOXICITEITSTEST)	

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· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential 1330-20-7 xylene

Log Kow 3 (not specified)

- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical 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

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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.

· European w	· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
08 01 00	wastes from MFSU and removal of paint and varnish	
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances		

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14:	Transport	informat	tion
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- · 14.1 UN-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



3 Flammable liquids. Class

IMDG, IATA



3 Flammable liquids. · Class

· Label

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Flammable liquids.

· EMS Number: F-E, S-E

· Stowage Category

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) · Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging:

30 ml

D/E

Maximum net quantity per outer packaging:

1000 ml

· Tunnel restriction code · 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:

Maximum net quantity per outer packaging:

1000 ml

≤ 30 1: -· Remarks:

· UN "Model Regulation": UN 1263 PAINT, 3, III

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SECTION 15: Regulatory information

- \cdot 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
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Technical instructions (air):

Class	Share in %	
I	<u>≤</u> 0.5	
NK	25-50	

· Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

 80-46-6 p-(1,1-dimethylpropyl)phenol

 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.
 - H302 Harmful if swallowed.
 - ${\tt H304}$ May be fatal if swallowed and enters airways.
 - H312 Harmful in contact with skin.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H332 Harmful if inhaled.
 - H351 Suspected of causing cancer.
 - H361 Suspected of damaging fertility or the unborn child.
 - H361f Suspected of damaging fertility.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
- · 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 européen sur le transport 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

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