Printing date 03/31/2015 Reviewed on 03/31/2015

1 Identification

- · Product identifier
- · Trade name: Epifanes Teak Oil Sealer
- · 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 of preparations
- Application of the substance / the mixture
 See our technical datasheet for application of this product.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

W.Heeren & Zoon bv.

Impregnating oil

P.O. box 166

1430 AD Aalsmeer

Netherlands

tel.+31-(0)297-360366

fax +31-(0)297-342078

email: r&d@epifanes.nl

- · Information department: environment protection department
- · Emergency telephone number:

Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)

Outside US: 703-527-3887

See manufacturer

2 Hazard(s) identification

 \cdot Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

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



GHS07

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

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 - R10-66: Flammable. Repeated exposure may cause skin dryness or cracking.
- Information concerning particular hazards for human and environment:
 The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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Trade name: Epifanes Teak Oil Sealer

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- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







- · Signal word Danger
- · Hazard-determining components of labeling: Naphtha (petroleum), hydrotreated heavy (Note-p) cobalt bis(2-ethylhexanoate)

2-butanone oxime

- · Hazard statements
 - H226 Flammable liquid and vapour.
 - H317 May cause an allergic skin reaction.
 - H351 Suspected of causing cancer.
 - H361 Suspected of damaging fertility or the unborn child.
 - H304 May be fatal if swallowed and enters airways.
- · Precautionary statements
 - Keep away from heat/sparks/open flames/hot surfaces. No P210
 - smoking.
 - Do not breathe dust/fume/gas/mist/vapors/spray. P260
 - 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): Remove/Take off immediately all
 - contaminated clothing. Rinse skin with water/shower.
 - P501 Dispose of contents/container in accordance with local/regional/
 - national/international regulations.
- Classification system:
- NFPA ratings (scale 0 4)



Health = 0Fire = 2Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 2Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.



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Trade name: Epifanes Teak Oil Sealer

(Contd. of page 2)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 \cdot Description:

Resin mixture

Solvent mixture with additives

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy	25-50%
	(Note-p) ☑ Xn R65	
Reg.nr.: 01-2119463258-33	R10-66	
	♠ Flam. Liq. 3, H226♠ Asp. Tox. 1, H304	
CAS: 136-52-7	cobalt bis(2-ethylhexanoate)	≤0.5%
EINECS: 205-250-6	Xn R62	
Reg.nr.: 01-2119524678-29	Xi R43 N R50/53	
	© Carc. 2, H351; Repr. 2, H361 Skin Sens. 1, H317	
CAS: 96-29-7	2-butanone oxime	≤0.5%
EINECS: 202-496-6	Xn R21−40	
Index number: 616-014-00-0		
Reg.nr.: 01-2119539477-28	Carc. Cat. 3	
	<pre>Carc. 2, H351 Eye Dam. 1, H318</pre>	
	Acute Tox. 4, H312; Skin Sens. 1, H317	
	Flam. Liq. 4, H227	

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 risk phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed
 No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
 - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot For safety reasons unsuitable extinguishing agents: Water with full jet

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- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

 \cdot Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- \cdot 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 receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:
 No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

The product does not contain any relevant quantities of materials with critical

. Xadvesohartihavemteibe:monitored at the workplace.

The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
 Wash hands before breaks and at the end of work.

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Do not inhale gases / fumes / aerosols.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Filter AX

· Protection of hands:



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.

 \cdot 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: nitrile rubber;

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

· As protection from splashes gloves made of the following materials are suitable:

chloropene; glove thickness> 0.7mm, breakthrough time> 60min. according to EN 374.

nitrile rubber; glove thickness> 0.3 mm, breakthrough time> 60min.volgens EN 374.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Fluid

Color: According to product specification

Odor: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

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Trade name: Epifanes Teak Oil Sealer

	(Contd. of page
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 150 °C (302 °F)
· Flash point:	42 °C (108 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	240 °C (464 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	0.6 Vol % 7.0 Vol %
· Vapor pressure at 20 °C (68 °F):	1 hPa (1 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	0.88672 g/cm ³ (7.4 lbs/gal) (ISO 2811) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
<pre>Partition coefficient (n-octanol/ water):</pre>	Not determined.
· Viscosity: Dynamic: Kinematic at 20 °C (68 °F):	Not determined. 14 s (DIN 53211/4)
Solvent content:Organic solvents:VOC content:	39.6 % 39.6 % VOC content: 350.9 g/l / 2.93 lb/gl
Solids content: Other information	60.2 % (SC% 1h 150C) No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- \cdot Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
 Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
64742-48-9 Naphtha (petroleum), hydrotreated heavy (Note-p)			
Oral	LD50	>5000 mg/kg bw (rat)	
Dermal	LD50	>5000 mg/kg bw (rabbit) ((24h))	
Inhalative	LC50	>5000 mg/m ³ (vapour) (rat) ((8h))	
136-52-7 co	136-52-7 cobalt bis(2-ethylhexanoate)		
Oral	LD50	>5000 mg/kg (rat)	
Dermal	LD50 (Konijn)	5000 mg/kg (rabbit)	
96-29-7 2-b	96-29-7 2-butanone oxime		
Oral	Oral LD50 3700 mg/kg bw (rat)		
Dermal	LD50	200-2000 mg/kg bw (rat)	
Inhalative	LC50/4 h	20 mg/l (rat)	

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (Int	ernational Agency for Research on Cancer)	
136-52-7	cobalt bis(2-ethylhexanoate)	2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

EL50 (48h)	>1000 mg/l ((Daphnia magna-OECD 202))
EbL50 (72h)	>1000 mg/l (Pseudokirchneriella subcapitata-OECD 201)
ErL (72h)	>1000 mg/l (Pseudokirchneriella subcapitata-OECD 201)
LL50 (96h)	>1000 mg/l ((Onorhynchus mykiss OECD 203))
NOELR (72h) 3 mg/l ((Pseudo. subcapitata-biomass-OECD 201))	
	100 mg/l ((Pseudo. subcap. growth rate OECD 201))
136-52-7 cobal	t bis(2-ethylhexanoate)
EC50	0.1-1 mg/l (Algae, Growth inhibition test)
	0.1-1 mg/l (daphnia magna)
LC50	0.1-1 mg/l (Fish Acute Toxicity Study)
96-29-7 2-buta	none oxime



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	(Contd. of page 7)
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)
LC50 (48 hours)	750 mg/l (other waterspecies 1)
LC50 (96 hours)	320-1000 mg/l (fish 1) (LEUCISCUS IDUS; STATISCH SYSTEM)
	48 mg/l (fish 2) (LEPOSMIS MACEOCHIRUS; STATISCH SYSTEM)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (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.

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

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN1263
UN proper shipping nameDOTADRIMDGIATA	CONSUMER COMMODITY, ORM-D Paint 1263 Paint CONSUMER COMMODITY, ORM-D PAINT PAINT

- · Transport hazard class(es)
- · DOT



· Class 3 Flammable liquids

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Trade name: Epifanes Teak Oil Sealer

	(Contd. of page
· Label	3
· ADR, IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	30
· EMS Number:	F-E, <u>S-E</u>
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· 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

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

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

· TSCA (Toxic Substances Control Act):

8001-26-1 Linseed oil

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		(Contd.	of pa	ıge	9)
64742-48-9	Naphtha (petroleum), hydrotreated heavy (Note-p)				
68409-80-3	Isomers of fatty acid calcium salts, C6-C19				
22464-99-9	Zirconiumoctoate, 12 % Zr				
63449-39-8	Paraffin waxes and Hydrocarbon waxes, chloro				
136-52-7	cobalt bis(2-ethylhexanoate)				
96-29-7	2-butanone oxime				
112-34-5	2-(2-butoxyethoxy)ethanol				\neg
Deservation	CE				

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

96-29-7 2-butanone oxime

2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms









GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Naphtha (petroleum), hydrotreated heavy (Note-p)

cobalt bis(2-ethylhexanoate)

2-butanone oxime

· Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No

smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

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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): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

· National regulations:

· Technical instructions (air):

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

· Water hazard class:

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

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.

- \cdot Date of preparation / last revision 03/31/2015 / 2
- · 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

* * Data compared to the previous version altered.