

Epifanes Rapidclear

Epifanes Rapidclear is the answer for a quick and easy alternative to conventional varnish. Rapidclear is a superior quality, semi-gloss finish for marine woods interior and exterior. Rapidclear provides an enhancing U.V. protecting film which bonds well to teak and other oily wood, preventing discolorisation and emphasizes the natural grain of the wood. Excellent weather resistance, maximum durability, U.V. protection and longevity.

Type	One component semi-gloss wood finish.
Base	Alkyd resin / urethane resin.
Colour	Clear
Gloss	Semi gloss
Density	0.886/dm ³
Viscosity	30 seconds DC 6
Solids content	35 ± 2 vol.%
Drying times at 20°C. / 65% RAH	

Tack free	Dust free	Recoatable
1 hour	2 hours	5-6 hours

Application	Brush, roller, conventional air spray, H.V.L.P. airless
Thinner	Preferably not thinned. Epifanes Brushthinner for Paint & Varnish.
Theoretical coverage	10-12 sqm per litre @ 30 µm dryfilmthickness (= 150 sqft.)
Practicle coverage	Dependent on application methode, kind and condition of substrate, loss of material due to shape of object, circumstances during application, etc.
Recommended wetfilmthickness	70 µm, (= 30 µm dryfilmthickness)

Application	Temperature should be between 10°C. and 30°C.(= 50°F. and 85°F.) during application. Air humidity below 85%. Do not apply wet-on-wet and do not apply excessive a wet films to avoid drying and sagging problems.
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Sanding	Do not sand between coats.
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Recommended use	Epifanes Rapidclear can be used for renewing weathered aeras, prior to a varnish, over most existing finishes, or as a full system for those requiring a quick and easy semi-gloss finish with maximum durability, U.V. protection and longevity. Epifanes Rapidclear provides a semi-gloss finish with excellent breathing properties and flexibility. It bonds extremely well to teak and any other oily wood, preventing discoloration and emphasizing the natural grain of the wood. Can be applied every 5-6 hours. Three coats is sufficient for most conditions. No sanding required. Easy touch up and maintenance.
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Recommended system and surface preparation	Deagrese bare wood with Epifanes Spraythinner for Paint & Varnish and sand with 220 grit dry abrasive paper to a smooth surface. Remove all sanding dust and degrease once more. Apply by brush, foam brush, roller or spray 4 to 5 coats. Stir prior to use, do not thin and allow 4-5 hours between coats. Sanding between coats is not required. If top-coated with varnish, sand with 220 grit dry abrasive paper. Brush application with good quality, clean, natural bristle brush will give good results. Foam brushes are convenient on smaller projects however, are not suitable for larger jobs. "Roll and tip" is a great method for large flat areas. 3 inch foam roller followed by a bristle brush is the best combination.
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Application conditions	Before applying, stir thoroughly. The application and drying should occur in well ventilated areas. Always secure sufficient air circulation for supply of fresh air and disposal of solvent fumes and in order to avoid health hazards and drying problems. Avoid painting in direct sunlight or too much wind. A rapid loss of solvents will occur under these conditions and degrease the flowing ability.
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Temperature of paint, object and work area during application and drying should not be lower than 5°C. Relative air humidity should not exceed 85%.

Temperature of object during and drying should be at least 3°C above dew point.

Material Safety Data Sheet
According to 91/155 EEC

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1 Identification of the substance/preparation and of the company/undertaking

- Product details
- Trade name: Epifanes Rapidclear
- Application of the substance / the preparation
Lacquer
One component semi gloss woodfinish
- Manufacturer/Supplier:
W.HEEREN & ZOON BV
Postbus 166
1430 AD Aalsmeer
tel. +31-297-360366
fax. +31-297-342078
- Further information obtainable from: Department Research & Development
- Information in case of emergency: See under Manufacturer/Supplier

2 Composition/information on ingredients

- Chemical characterization
- Description:
Resin mixture
Solvent mixture with additives

• Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy  Xn; R 10-65-66	58.19%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn,  N; R 10-37-51/53-65-66	0.341%
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy  T; R 45-65	0.281%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene  Xn,  N; R 10-20-36/37/38-51/53	0.221%

- Additional information:
For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description: Not applicable.
- 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.
R 10 Flammable.
R 66 Repeated exposure may cause skin dryness or cracking.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 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.

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- After swallowing: Seek medical treatment.

5 Fire-fighting measures

- Suitable extinguishing agents:
CO₂, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents:
Water
Water with full jet
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Ensure adequate ventilation
- Measures for environmental protection:
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- Handling:
 - Information for safe handling: Work only in fume cupboard.
 - Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 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: None.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:
No further data; see item 7.
- Ingredients 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.
- Additional information:
The lists valid during the making were used as basis.
- Personal protective equipment:
 - General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
 - Respiratory protection: Not required.
 - Protection of hands:
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.

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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.
- Eye protection: Safety glasses
- Body protection: Use protective suit.

9 Physical and chemical properties

• General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

• Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

• Flash point:	> 36°C
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• Ignition temperature:	240°C
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• Self-igniting:	Product is not selfigniting.
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• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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• Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

• Vapour pressure at 20°C:	1 hPa
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• Density at 20°C:	0.89 g/cm ³
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• Solubility in / Miscibility with water:	Not miscible or difficult to mix.
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• Viscosity:

Kinematic at 20°C:	25 s (DIN 53211/4)
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• Solvent content:

Organic solvents:	59.5 %
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• Solids content:	40.5 % (VB% 1h 150C)
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10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.

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- Dangerous decomposition products:
No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

12 Ecological information

- General notes:
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

13 Disposal considerations

- Product:
- 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.

14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 3 F1 Flammable liquids.
- Danger code (Kemler): 30
- UN-Number: 1263
- Packaging group: III
- Hazard label: 30

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- Description of goods: 1263 PAINT (not viscous)

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 1263
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: No
- Proper shipping name: PAINT

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: III
- Proper shipping name: PAINT

15 Regulatory information

- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Risk phrases:
10 Flammable.
66 Repeated exposure may cause skin dryness or cracking.
- Safety phrases:
2 Keep out of the reach of children.
20 When using do not eat or drink.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.
- National regulations:
- Technical instructions (air):

Class	Share in %
II	0.7
III	0.3

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

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.

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• Relevant R-phrases

- 10 Flammable.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 37 Irritating to respiratory system.
- 45 May cause cancer.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.

• Department issuing MSDS: Department Research & Development

• Contact: T.J.H.M. van Steenes

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