

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

- Product details
- Trade name: Epifanes Poly-urethane Clear Satin
- Application of the substance / the preparation
base component of a two-component interior satin yacht varnish
- Manufacturer/Supplier:
W.Heeren & Zoon BV
P.O. Box 166
Netherlands
Phone:(++31)297 360366
Fax :(++31)297 342078
- Further information obtainable from: Environment protection department.
- Information in case of emergency: Zie rubriek Fabrikant/leverancier

2 Composition/information on ingredients

- Chemical characterization
- Description:
Resin mixture
Solvent mixture with additives
Mixture of substances listed below nonhazardous additions

• Dangerous components:

CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Xi; R 10-36	50-100%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn, Xi; R 10-20/21-38	≤ 2.5%
CAS: 70657-70-4 EINECS: 274-724-2	2-methoxypropyl acetate T, Xi; R 61-10-37	≤ 2.5%

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

3 Hazards identification

- Hazard description:
Xi Irritant
- 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 36 Irritating to eyes.
- 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. If symptoms persist, consult a doctor.

(Contd. on page 2)

Trade name: Epifanes Poly-urethane Clear Satin

(Contd. of page 1)

- After swallowing: Seek medical treatment.

5 Fire-fighting measures

- 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
- Protective equipment: Wear fully protective suit.

6 Accidental release measures

- Person-related safety precautions:
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- 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).
Ensure adequate ventilation.

7 Handling and storage

- Handling:
- Information for safe handling:
Keep away from heat and direct sunlight.
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.
- 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.

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:

108-65-6 2-methoxy-1-methylethyl acetate

OES	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm New, IOELV, Sk
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1330-20-7 xylene

OES	Short-term value: 662 mg/m ³ , 150 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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(Contd. on page 3)

Trade name: Epifanes Poly-urethane Clear Satin

(Contd. of page 2)

- Additional information: The lists valid during the making were used as basis.
- 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.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes.
 - Avoid contact with the eyes and skin.
- 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.
- 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.
- 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.
- Eye protection: Tightly sealed goggles

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: 42°C

• Ignition temperature: 315.0°C

• Self-igniting: Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

• Explosion limits:

Lower:	1.5 Vol %
Upper:	10.8 Vol %

(Contd. on page 4)

Printing date 14.03.2007

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Trade name: Epifanes Poly-urethane Clear Satin

(Contd. of page 3)

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|---|--|
| • Vapour pressure at 20°C: | 3.4 hPa |
| • Density at 20°C: | 1.07 g/cm ³ |
| • Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| • Viscosity:
Kinematic at 20°C: | 40 s (ISO 6 mm) |
| • Solvent content:
Organic solvents:
VOC content: | 56.1 %
56.1 %
600.7 g/l / 5.01 lb/gl |
| • Solids content: | 43.7 % (VB% 1h150 C) |

10 Stability and reactivity

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

11 Toxicological information

- Acute toxicity:

- LD/LC50 values relevant for classification:

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

- Primary irritant effect:
 - on the skin: No irritant effect.
 - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 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.

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(Contd. on page 5)

Printing date 14.03.2007

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Trade name: Epifanes Poly-urethane Clear Satin

(Contd. of page 4)

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 Flammable liquids.
- UN-Number: 1263
- Packaging group: III
- Hazard label 3
- Description of goods: 1263 PAINT

- 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.
- Code letter and hazard designation of product:



Xi Irritant

- Risk phrases:
10 Flammable.
36 Irritating to eyes.
- Safety phrases:
2 Keep out of the reach of children.
23 Do not breathe fumes/aerosol.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

(Contd. on page 6)

Printing date 14.03.2007

Reviewed on 26.02.2007

Trade name: Epifanes Poly-urethane Clear Satin

(Contd. of page 5)

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

- 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.

- Relevant R-phrases
 - 10 Flammable.
 - 20/21 Harmful by inhalation and in contact with skin.
 - 36 Irritating to eyes.
 - 37 Irritating to respiratory system.
 - 38 Irritating to skin.
 - 61 May cause harm to the unborn child.
- Department issuing MSDS: Environment protection department.
- Contact: J.J. van Dijk
- Sources None
- * Data compared to the previous version altered.