

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

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








- Product details
- Trade name: Epifanes Copperfree
- Application of the substance / the preparation
Paint
Copper, tin and biocide-free classic underwaterpaint
- 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 pigment additives
Mixture of resins, pigments, additives and organic solvents.

- Dangerous components:

CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy  Xn; R 10-65-66	19.07%
CAS: 8050-09-7 EINECS: 232-475-7	Rosin  Xi; R 43	18.62%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.  Xn,  N; R 10-37-51/53-65-66	10.008%
CAS: 1317-36-8 EINECS: 215-267-0	lead monoxide  T,  N; R 61-62-20/22-33-50/53	0.271%
CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy  T; R 45-65	0.19%

- 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.
R 67 Vapours may cause drowsiness and dizziness.
Contains lead. Should not be used on surfaces liable to be chewed or sucked by children
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page^{G2})

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Copperfree

(Contd. of page 1)

4 First-aid measures

- General information:
Take affected persons out into the fresh air.
Immediately remove any clothing soiled by the product.
- After inhalation:
Supply fresh air; consult doctor in case of complaints.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Call for a doctor immediately.

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: Wear protective clothing.
- Measures for environmental protection:
Do not allow product to reach sewage system or any water course.
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.
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: Store in dry conditions.

8 Exposure controls/personal protection

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

(Contd. on page 3)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Copperfree

(Contd. of page 2)

• Ingredients with limit values that require monitoring at the workplace:	
barium sulphate, natural	
OES	Long-term value: 10* 4** mg/m ³ *total inhalable dust **respirable dust
546-93-0 Magnesite	
OES	Long-term value: 10* 4** mg/m ³ *total inhalable dust **respirable dust

- Additional information:
The lists valid during the making were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
- 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 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
• Ignition temperature:	240°C
• Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Contd. on page 4)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Copperfree

(Contd. of page 3)

- | | |
|---|-----------------------------------|
| • Explosion limits: | |
| Lower: | 0.6 Vol % |
| Upper: | 7.5 Vol % |
| • Vapour pressure at 20°C: | 5 hPa |
| • Density at 20°C: | 1.26 g/cm ³ (ISO 2811) |
| • Solubility in / Miscibility with water: | Insoluble. |
| • Viscosity: | |
| Kinematic at 20°C: | 35 s (ISO 6 mm) |
| • Solvent content: | |
| Organic solvents: | 10.0 % |
| • Solids content: | 61.7 % (VB% 1h 150C) |

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:

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:
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 5)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Copperfree

(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 F1 Flammable liquids.
- Danger code (Kemler): 30
- 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.
- Hazard-determining components of labelling:
Naphtha (petroleum), hydrotreated heavy
Solvent naphtha (petroleum), light arom.

(Contd. on page 6)

Material Safety Data Sheet
According to 91/155 EEC

Printing date 19.03.2004

Reviewed on 21.02.2003

Trade name: Epifanes Copperfree

(Contd. of page 5)

Rosin

Naphtha (petroleum), hydrosulfurized heavy

• Risk phrases:

10 Flammable.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

• Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

37/39 Wear suitable gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

• Special labelling of certain preparations:

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children

• National regulations:

• Technical instructions (air):

Class	Share in %
II	10.0
III	0.3

• Waterhazard class:

Water hazard class 3 (Self-assessment): extremely 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.

20/22 Harmful by inhalation and if swallowed.

33 Danger of cumulative effects.

37 Irritating to respiratory system.

43 May cause sensitisation by skin contact.

45 May cause cancer.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

61 May cause harm to the unborn child.

62 Possible risk of impaired fertility.

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